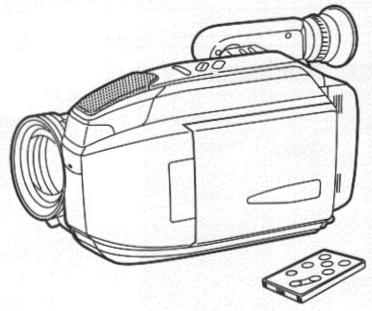
Panasonic®

Palmcorder® PalmSight™

Camcorder

Operating Instructions



VHS**E** PV-L568

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

Spanish Quick Use Guide is included.

Guía para rápida consulta en español está incluida.

VQTW0709(A)

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 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 (see page 11)



1 pc. Shoulder Strap (VYCW0149) (see page 21)



1 pc. Remote Control Holder (VGQ6893) (see pages 21, 28)



1 pc. Battery Pack (PV-BP18) (see pages 9, 10)



1 pc. VHS PlayPak (PV-P1/VYMW0009) and one "AA" battery (see page 32)



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



Remote has been loaded with battery, (see page 28)

1 pc. Audio/Video Cable (VJAW0039) (see pages 31, 42)



1 pc. CR2025 Clock Battery (VSBW0004) (installed in Camcorder) (see page 17)



1 pc. Wiping Cloth (VFCW0001)



Use this wiping cloth to clean the display screen of finger prints and other smudges.

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 **MISE** and/or **VIIS** mark be used.





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.



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: 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.

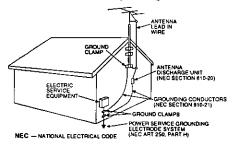
If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

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.

Important Safeguards

- Read Instructions All the safety and operating instructions should be read before the unit is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- Heed Warnings All warnings on the unit and in the operating instructions should be adhered to.
- Follow Instructions All operating and maintenance instructions should be followed.
- Cleaning Unplug this video unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for cleaning.
- Attachments Do not use attachments not recommended by the video product manufacturer as they may be hazardous,
- 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 video unit may fall, causing serious injury to a child or adult, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table 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.

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.
- Overloading Do not overload 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.
- 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.
- 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.
- 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.
- 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

- TO 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.

Table of Contents

Getting Started	
Things You Should Know Important Safeguards Precautions Self Demo Mode	4 5
Quick Operation Guide Supplying Power Cassette Information	9
MENU Mode	3 4
Attaching the Shoulder Strap and Remote Control Holder	1
Basic Operation Camera Recording	:3
8-Function Remote Control	
Special Features Four-Speed Power Zoom	
Backlight	3
High Speed Shutter3	35
Fade 3	37
Tally Lamp	9
Copying your Tapes (dubbing)4 For Your Information	.2
Palmcorder Accessory System	3
Notes Regarding Operations 4 Specifications 4	5
Before Requesting Service	9
Index of Controls 5 Index 5	6
Warranty	7

Self Demo Mode

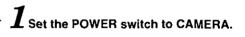
If the screen at right appears in the EVF/LCD Monitor, the Self Demo mode is on. To turn it off, please follow the steps below.

EVF Screen

Panasonic

IT'S VHSI SO ITS TAPES PLAY IN YOUR VCR

23× HI-DEFINITION LENS FULL-SIZE HEAD SYSTEM AUTO/PHRASE TITLER



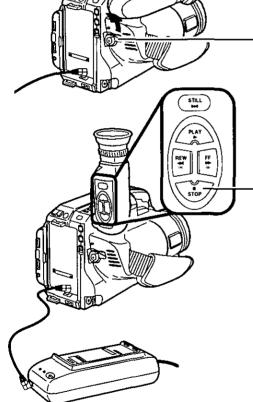
Hold down the STOP button for more than 5 seconds.



- The Self Demo mode will automatically turn itself off if a battery is attached (see page 9) and a cassette tape is inserted (see page 12).
- Inserting a tape alone (or attaching a partially charged battery) will only temporarily turn the Self Demo mode off.
- The Self Demo mode will temporarily stop for 30 seconds when a function key other than Power, Tape Speed Selector, Light, and Still is pressed.

To turn the Self Demo mode on, follow the steps below.

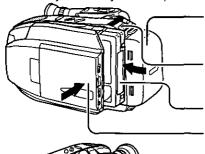
 With the DISPLAY button held down, slide the POWER switch to CAMERA and wait for the Self Demo screen to appear in the EVF/LCD Monitor.



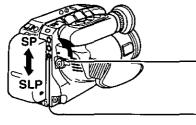
Quick Operation Guide

Camera Recording

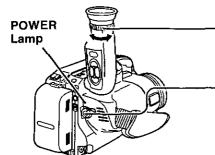
Charge the Battery Pack fully before operation (see page 9).



- Attach a fully charged Battery (see page 9).
- 2 Slide the TAPE EJECT switch to open door.
- Insert cassette (see page 12).
- $m{4}$ Press here to close door.

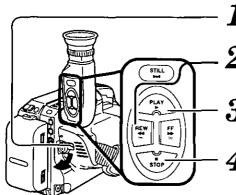


- 5 Set POWER switch to CAMERA.
 Built-In Lens Cover opens and POWER
 Lamp lights.
- 6 Slide TAPE SPEED Selector to SP or SLP (see page 12).



- While looking into the Viewfinder, adjust the Vision Adjustment Control to your eyesight.
- Press RECORD/PAUSE to start recording.
 Press RECORD/PAUSE again to pause recording (see page 23).

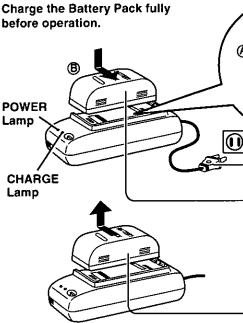
To Watch Playback in the EVF (Electronic Viewfinder)



- **1** Set the POWER switch to VCR.
- 2 Press the REWIND/SEARCH to rewind tape.
- **3** Press PLAY to start playback.
- **4** Press STOP to stop playback.

Supplying Power

Charge the Battery Pack Charge the Battery Pack fully



 $m{L}$ Plug in the AC Adaptor.

POWER Lamp lights.

2 Insert the Battery

- Align the right side of the Battery with the line on the AC Adaptor.
- ® Press the Battery down and slide it in the direction of the arrow.

CHARGE Lamp lights. When charging is done (about one and a half hours) the lamp goes out.

3 Remove the Battery

Slide the Battery out and lift up.

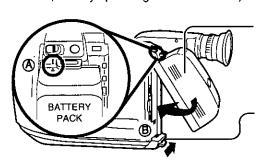
Note: The useful operation time of the Battery will After recharging the Battery Pack about 5 times, use the BATTERY REFRESH feature as

gradually decrease after repeated use and recharging. The Battery is no longer serviceable if the operation time is very short, even after a sufficient charge.

Use the Battery Pack

explained on page 10.

With a fully charged Battery Pack, you will have a maximum of about 2 hours of continuous use (LCD monitor is off) or about 1 hour of continuous use (LCD monitor is on). (The actual operating time may vary due to operation conditions. If the Built-in Light is used, battery operating time decreases.)



Attach the Battery

- Align the Battery with the top of the mounting surface.
- (B) Press it into place until it locks with a click.

Remove the Battery

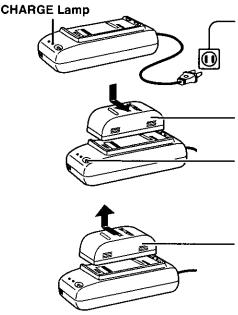
While sliding the BATTERY RELEASE button, remove the Battery.

Supplying Power

Battery Refresh Feature

This feature completely discharges the Battery before recharging begins.

To maintain your Battery's operating capacity, use the refresh feature after about every five charges.



 $m{I}$ Plug in the AC Adaptor.

- The POWER Lamp remains lit as long as the AC Adaptor is plugged in.
- Place the Battery into the AC Adaptor.
- Press the BATTERY REFRESH button.

The CHARGE Lamp flashes until discharge is complete and then stays lit until the Battery is fully charged.

- $oldsymbol{4}_{\mathsf{Remove}}$ the Battery.
- Should you accidentally press the BATTERY REFRESH button, remove the Battery and then re-insert it to begin charging.
- It takes about 7 and a half hours when both Battery Refresh and recharging are performed.

To avoid damage to the Battery:

- . Do not drop or jar Battery.
- Use Battery with specified units only.
- If Battery is used in extremely high temperatures, a safety device will automatically prevent operation.

To prolong battery life:

- While not in use, remove Battery from the Camcorder and AC Adaptor and store in a cool, dark, dry place.
- · Keep Battery terminals clean.

Battery Care

Caution:

- Charge only with specified charger.
- Battery can be charged within a temperature range of 50° F (10° C) and 95° F (35° C).
- Battery may be warm after charging or just after use. This is normal.
- Do not use an insufficiently charged or wornout Battery.

Safety precautions:

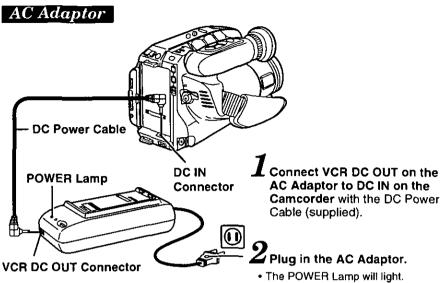
- Do not get the Battery near, or dispose of in fire.
- Do not directly connect (short circuit) the positive (+) and negative (-) terminals.
- Never attempt to disassemble or reassemble the Battery.

U.S.A. CONSUMERS: - ATTENTION:



The product you have purchased is powered by a nickel cadmium battery which is recyclable. At the end of its useful life, under various state and local laws, it is illegal to dispose of this battery into your municipal waste stream. Please call 1-800-8-BATTERY for information on how to recycle this battery.

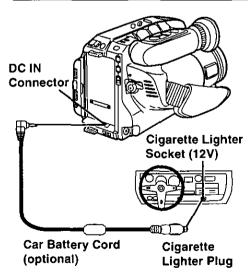
Supplying Power



Notes:

- · AC Adaptor cannot be used to power the Camcorder while charging the Battery.
- While not in use, unplug the AC Adaptor from the AC outlet. (When plugged into an AC outlet, the AC Adaptor consumes 1.2W of electric power when not in use.)

Car Battery Cord (Optional)



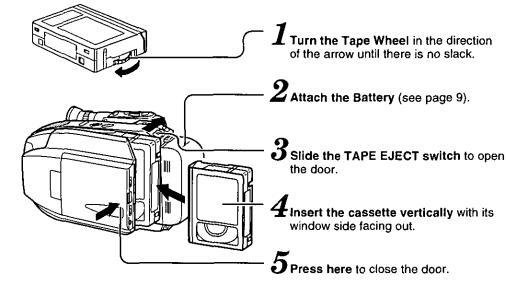
- Connect a PV-C16 Car Battery Cord (optional) to DC IN on the Camcorder.
- First, start your car engine, and then insert the Car Battery Cord plug into your cigarette lighter socket.
 - A fuse is located in the lighter plug end of the cord.
 - Should fuse replacement be necessary use the exact current rating (in amps).

Notes:

- This cord can only be used in vehicles equipped with DC 12V (negative ground) batteries. Use only the specified car battery cord. If you are not sure, check with your local car/truck dealer.
- To avoid blowing the fuse, be sure to start your car engine before inserting the cigarette lighter plug of the Car Battery Cord into the lighter socket.
- Because the car is running while your Camcorder is in operation, make sure you're in a well ventilated area.
- Disconnect the cigarette lighter plug when your Camcorder is not being used.

Cassette Information

Cassette Insertion/Removal



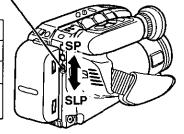
To remove the cassette, slide the TAPE EJECT switch.

Record/Playback Time

Use tapes with the VHSC mark in this unit.

Tape Speed Selector Position	Cassette type		
	T-20	T-30	T-40
SP (Standard Play)	20 minutes	30 minutes	40 minutes
SLP (Super Long Play)	1 hour	1 hour 30 minutes	2 hours

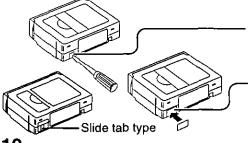
TAPE SPEED Selector



. SLP may have slightly more picture noise during playback.

Erase Protection Tab

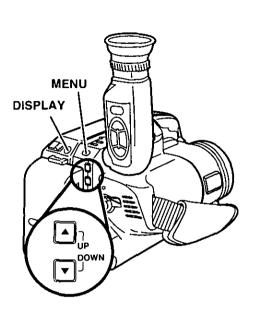
Cassettes have a record tab to ensure that recordings are not accidentally erased.



L To prevent accidental erasure, break off the tab with a screwdriver. (If slide type, slide tab open.)

 $oldsymbol{2}$ To record again, cover the hole with adhesive tape. (If slide type, slide tab closed.)

MENU Mode Setting



Before you begin...

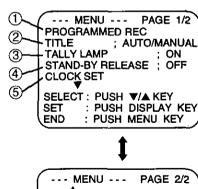
- . Connect the Camcorder to a power source.
- . Set the POWER switch to CAMERA.
- 1 Press the MENU button to display the MENU mode.

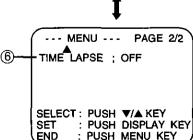
- 2 Press UP ▲ or DOWN ▼ repeatedly to select a menu item.
- Press the DISPLAY button to set your selection.
- 4 Press the MENU button to exit the Menu mode.

Note:

 The Camcorder will exit the Menu mode if, after activation, none of the UP/DOWN(▲/▼), DISPLAY, or MENU buttons are pressed within 5 minutes.

MENU Mode Screen



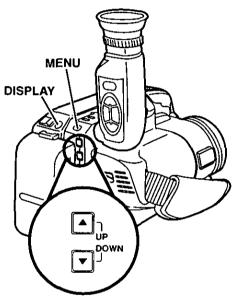


- (1) PROGRAMMED REC (see page 27). You can program the Camcorder to start and stop recording at a preset time.
- ② TITLE (see pages 39~41). AUTO/MANUAL: 16 items PHRASE: 10 items
- ③ TALLY LAMP (see page 38). The Tally Lamp comes on during recording when set to ON.
- 4 STAND-BY RELEASE (see page 25). To resume recording from Stand-by mode, when set to ON.
- ⑤ CLOCK SET (see pages 14~16). To set the clock, select CLOCK SET.
- TIME LAPSE (see page 37). To set the TIME LAPSE, when set to ON.

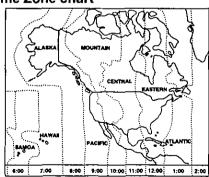
Setting the clock is divided into four sections: Time Zone, Daylight Saving Time, Date and Time, and Clock Battery. Follow instructions in the order presented.

Setting the Time Zone

The Camcorder is set to Eastern time zone at the factory. If you live, or are traveling, in a different time zone, follow the steps to select the appropriate time zone from the menu screen.



Time Zone chart



Note:

When you travel outside the eight time zone chart above, please set the clock manually (see page 16).

Before you begin...

- · Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.

Note: -

- When the POWER switch is set to VCR, the CLOCK SET menu will be displayed.
- The Camcorder's clock may lose or gain up to two minutes per month. Please adjust as necessary (refer to page 16).
- Press the MENU button to display the MENU mode. Press UP ▲ or DOWN ▼ repeatedly to select

Press the DISPLAY button to display the CLOCK SET menu. Press UP ▲ or DOWN ▼ repeatedly to select

CLOCK SET ...

IMMETONIS : EASTERN
D. S. T. : AUTO
DATE / TIME : 12::00::00AM
JAN 1 1998

SELECT: PUSH * V/A KEY
SET : PUSH DISPLAY KEY
END : PUSH MENU KEY

Press the DISPLAY button to display the SELECT TIME ZONE menu. Press UP ▲ or DOWN ▼ repeatedly to select desired time zone.

ATLANTIC PACIFIC EXSTRAIN ALASKA CENTRAL HAWAII SAMOA SELECT: PUSH VIA KEY SET : PUSH DISPLAY KEY

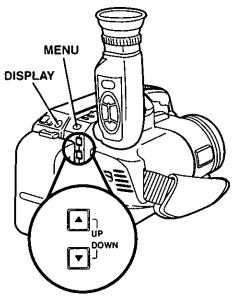
4 Press the DISPLAY button to fix the Time Zone. The CLOCK SET menu appears. Press the MENU button to display the MENU.

To exit from the MENU mode, press the MENU button.

Setting the Daylight Saving Time

The clock will automatically adjust to daylight saving time.

The Camcorder is preset to Daylight Saving Time AUTO . If you do not want the clock to be automatically adjusted to daylight saving time, please select OFF by following steps 1-4.



Spring (First Sunday in April): In DAYLIGHT SAVING TIME: AUTO mode, the clock is automatically moved ahead one hour. 1:00 a.m. 2:00 a.m. Normal Time Daylight Saving Time 3:00 a.m. 4:00 a.m. Autumn (Last Sunday in October): In DAYLIGHT SAVING TIME: AUTO mode. the clock is automatically turned back one hour. 1:00 a.m. 2:00 a.m. Daylight Saving Time Normal Time 1:00 a.m. 2:00 a.m.

Before you begin...

- · Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.

– Note:

- When the POWER switch is set to VCR, the CLOCK SET menu will be displayed.
- · Daylight saving time feature will not function if time zone is set to Hawaii or Samoa.
- Press the MENU button to display the MENU mode. Press UP ▲ or DOWN ▼ repeatedly to select CLOCK SET .

PROGRAMMED REC TALLY LAMP STAND-BY RELEASE ; OFF SELECT: PUSH V/▲ KEY PUSH DISPLAY KI END

Press the DISPLAY button to display the CLOCK SET menu. Press UP ▲ or DOWN ▼ repeatedly to select D. S. T.

> · · · CLOCK SET · · TIME ZONE : EASTERN DATE/TIME ; AUTO DATE/TIME ; 12:00:00AM JAN 1 1998 SELECT: PUSH V/A KEY
> SET : PUSH DISPLAY KEY
> END : PUSH MENU KEY

Press the DISPLAY button to display the DAYLIGHT SAVING TIME menu. Press UP ▲ or DOWN ▼ to select

AUTO or OFF.

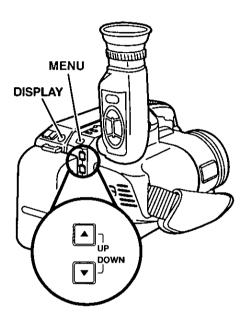


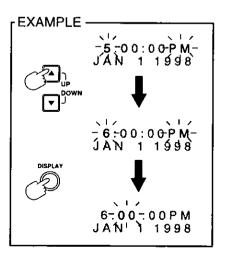
4 Press the DISPLAY button to fix the DAYLIGHT SAVING TIME setting. The CLOCK SET menu appears. Press the MENU button to display the MENU.

To exit from the MENU mode, press the MENU button.

Setting the Date and Time

The date and time are calculated, including leap year, up to DEC 31 2096.





Before you begin...

- . Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.

Note: -

 When the POWER switch is set to VCR, the CLOCK SET menu will be displayed.

Press the MENU button to display the MENU mode. Press UP ▲ or DOWN ▼ repeatedly to select CLOCK SET.

PAGE 1/2
PROGRAMMED REC
TITLE : AUTOMANUAL
TALLY LAMP : ON
STAND-BY RELEASE : OFF

SELECT: PUSH V/A KEY SET : PUSH DISPLAY KEY END : PUSH MENU KEY

Press the DISPLAY button to display the CLOCK SET menu. Press UP ▲ or DOWN ▼ repeatedly to select DATE/TIME.

TIME ZONE : EASTERN
D. S. T. : AUTO
DATE ZONE : 12:00:00AM
JAN 1 1998

SELECT: PUSH \$\forall A \text{ KEY}
SET : PUSH BISPLAY KEY
END : PUSH MENU KEY

Press the DISPLAY button to display the DATE/TIME SETTING menu.

4 Press UP ▲ or DOWN ▼ repeatedly (or hold down) to enter the desired numbers, then press the DISPLAY button to fix that portion and move on.

Adjust the flashing digits for the hour, minute, month, day, and year.

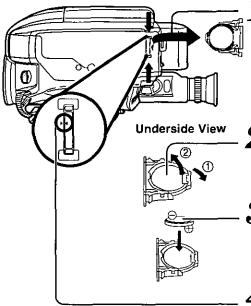
When you finish setting the year, the clock starts operating, and the CLOCK SET menu appears.

Press the MENU button to display the MENU.

To exit from the MENU mode, press the MENU button.

Replacing the Battery

The date and time operates on a miniature battery preinstalled in the underside of your Camcorder.



While pinching the stopper tabs, pull the Battery Tray out of the Battery Compartment.

- **2**Remove the Battery by bending the locking tab outward.
- Place the new Battery into the Battery tray with the ⊕ mark facing down. Press down until it snaps into place.
 - Do not reverse the polarity.
- 4 Insert the Battery Tray until both triangle marks meet.

WARNING:

Replace battery with Panasonic PART NO. VSBW0004 (CR2025) only. Use of another battery may present a risk of fire or explosion. Caution-battery may explode if mistreated. Dispose of used battery promptly. Keep away from children. Do not recharge, disassemble or dispose of in fire.

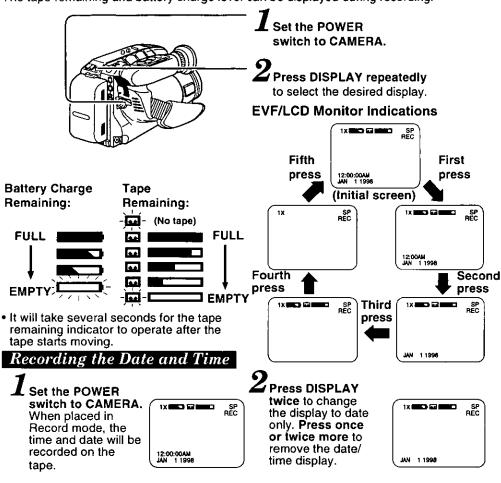
Note:

- Make sure your Camcorder is off when replacing the Battery.
- Keep the Battery out of the reach of children as swallowing it may be harmful.
- Improperly installed, discharged, or missing battery will cause "CLOCK BATTERY" to appear when the DISPLAY button is pressed.
- · Battery life is approximately 5 years.

Electronic Viewfinder/LCD Monitor Indications

Tape/Battery Remaining

The tape remaining and battery charge level can be displayed during recording.



_ Note: .

Only the Date and/or Time indications are recorded on the Tape.

Display-Off Mode

This feature allows you to remove all Electronic Viewfinder/LCD Monitor Indications except Intelligent Titler (see pages 39~41).

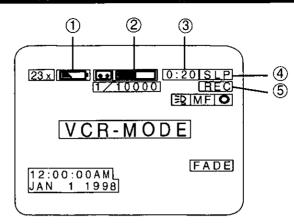
Before inserting a tape, press DISPLAY and STOP together for more than one second to remove the indications except time and date*.

To display the Electronic Viewfinder Indications again, turn the Camcorder Power off and then on again.

* To remove the time and date, press the DISPLAY button repeatedly.



Electronic Viewfinder/LCD Monitor Indications

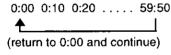


① Battery Remaining Indication - (see page 18)

When a battery recharge is necessary, "WARNING LOW BATTERY" will appear in the EVF. The external Power Lamp will start to flash and the Camcorder will automatically turn OFF in 15 seconds.

- (2) Tape Remaining Indication
 - If the Camcorder is in the camera mode, (RECORD) with no cassette tape inserted, or the record tab is missing, " will flash for one minute and "CHECK TAPE" will appear for 5 seconds.
 - As the tape reaches the end during recording, "
 will flash and "TAPE END" will appear for 5 seconds as a warning.
- 3 10-Second Reminder

An elapsed time indicator appears one second for every 10 seconds that recording continues. This is a reminder of how long you have been shooting a particular scene and can help keep your recordings fresh and interesting.



- The 10-Second Reminder will reset to 0:00 whenever you press the RECORD/PAUSE button.
- ④ TAPE SPEED Indication (see page 12) Indicates the tape speed (SP or SLP or T.LAPSE).
- **⑤** Operating Mode Indications

REC (record)

(Appears in large then small characters.)

PAUSE

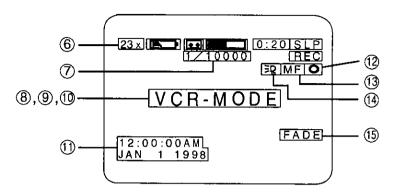
(Appears in large then small characters.)

FF (fast forward)

PLAY

REW (rewind)

Electronic Viewfinder/LCD Monitor Indications



- ⑤ Zoom Magnification level (see page 33).
- (7) High Speed Shutter Indication (see page 35).
- ® VCR-MODE Indication

Appears for one minute if the POWER switch is set to VCR or the RECORD/PAUSE button is pushed in VCR MODE.

(9) DEW Indication

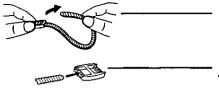
If excessive moisture condenses in the unit, "WARNING DEW DETECTED" will appear, Power Lamp will flash, and the Camcorder will automatically turn OFF in 15 seconds.

Wait until the indicator no longer flashes when your Camcorder is turned on before use.

- 10 Time Lapse Indication (see page 37).
- ① Date and Time Indication (see page 16).
- Backlight Indication (see page 33).
- Manual Focus Indication (see page 34).
- ① Light ON/OFF Indication (see page 22).
- (5) Fade Indication (see page 36).

Attaching the Shoulder Strap and Remote Control Holder

Make sure the Battery Pack is not attached.



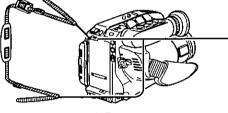
Undo the two strap ends from their buckles



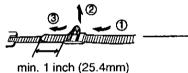
Remove the buckle from one end of the strap.



- 3 (A) Thread the strap (with no buckle) through the Control Holder so that it faces outward.
 - (B) Then reinsert the buckle.



Thread the strap ends through the Strap Attachment Rings.



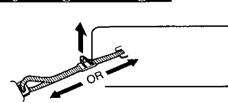
Aeinsert the strap ends through their buckles.

· Make sure the straps are not twisted.



Insert the Remote into the Remote Control Holder for storage.

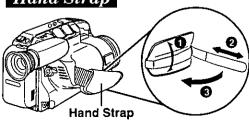
Adjusting the Length



Pull a loop of the strap loose from the buckle.

 \mathbf{Z} Pull the strap firmly through the buckle to shorten or lengthen the strap.

${oldsymbol{Hand\ Stran}}$

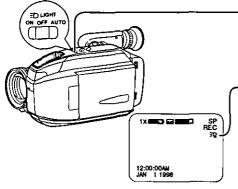


Adjust the length of the Hand Strap to the size of your hand as illustrated.

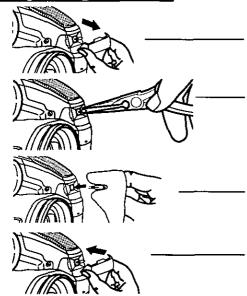
Built-in Auto Light

Using the Built-in Auto Light

To improve recording indoors or outdoors in dim lighting conditions.



Replacing the Bulb



DANGER:

When replacing the bulb, use only lamp bulbs (PART NO. VLLW0015) supplied by Panasonic to reduce the risk of fire.
Use a cloth or tissue when handling the bulb as finger oils will decrease the bulb life.
To prevent possible burn hazard, remove the lens cover and allow the lamp to cool before replacing.

Before you begin...

- Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.

Set the LIGHT switch to AUTO.

The built-in light automatically turns on and off depending on lighting conditions.

Or set LIGHT to ON/OFF to turn the light on and off manually.

SQ will appear in the EVF while the light is turned on.

Caution:

This light becomes hot during operation. Make sure nothing covers the Light during operation.

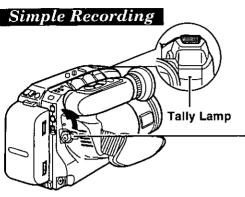
Before you begin...

- · Set the POWER switch to OFF.
- When ordering replacement bulbs, use PART No. VULS0001
- Push in on the both sides of the lens cover to unlock and pull it straight out from the Camcorder.
- 2 Using Tweezers or Needle-nose pliers, carefully remove the bulb from the Camcorder.
 - If you have trouble replacing the bulb, please take the unit to your nearest service center for assistance.
- Using a clean cloth or tissue, replace the bulb.

4 Push the lens cover straight back into place.

Note:

- · Using the light reduces battery operating time.
- If using the Built-in Light in a hot environment for an extended period of time, be sure to provide ventilation.
- Using the Built-in Light when the Camcorder is powered by a car battery may shorten bulb life.
- Be sure LIGHT switch is set to OFF when not in use or before placing Camcorder into an optional carrying case.
- Be very gentle when handling the bulb.
 Excessive force may cause the bulb to crack.



Before you begin...

- Connect the Camcorder to a power source.
- Insert a cassette with record tab (see page 12).

Set the POWER switch to CAMERA.

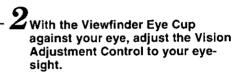
The built-in Lens Cover opens.

 Make sure the POWER switch is fully rotated to the CAMERA position.



EVF

Record/Pause mode.



Slide the TAPE SPEED Selector to SP or SLP (refer to page 12).

4 Press RECORD/PAUSE to start recording.

The Tally Lamp and REC Indicator are lit during recording.

RECORD

Press the RECORD/PAUSE again to pause the recording.

Set the Power switch to OFF after recording is finished.

• To remove the cassette

In Record/Pause mode, slide the TAPE EJECT switch (refer to page 12).

Note:

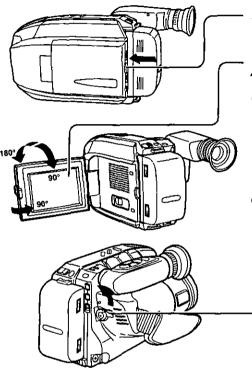
TAPE

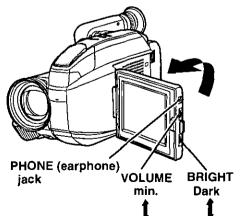
EJECT

 When your Camcorder is aimed at excessively bright objects, or bright lights, a vertical bar may appear in the picture. This is a normal characteristic of the CCD pick-up device. Try to avoid this when possible.

Using the LCD Monitor

The LCD (Liquid Crystal Display) monitor can be used while recording.





max.

Before you begin...

· Connect the Camcorder to a power source.

Press the LCD-OPEN button to unlock the LCD monitor.

2Swing the LCD monitor fully open and adjust the angle.

Caution:

Rotating the LCD monitor while it is only partially open may block the cassette door and cause damage to the Camcorder body.

Set the POWER switch to CAMERA.

- The LCD monitor turns on and off according to the POWER switch setting.
- When the LCD monitor is fully open, the Viewfinder automatically turns OFF.
- When the LCD monitor is completely closed, the Viewfinder turns on automatically.
- By rotating the LCD monitor 180°, so that it faces the same direction as the lens, the Viewfinder turns back on allowing you and the subject to monitor the recording.

4 Rotate the BRIGHT control to adjust the brightness of the LCD monitor.

5 Start recording (see page 23).

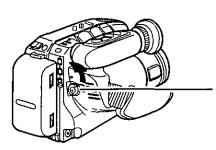
Note:

Bright

- Using the LCD monitor reduces battery operating time.
- You cannot monitor the sound from the speaker during recording. Connect the earphone (M3 type, not supplied) to PHONE (earphone) jack and adjust the volume of the earphone using the VOLUME control.
- Close the LCD monitor completely when not in use.

Stand-by Quick Release

Whenever the Camcorder is left in RECORD/PAUSE mode for 5 minutes, it will automatically switch to Stand-by mode to conserve energy. Activating the Stand-by Quick Release feature allows you to release the Stand-by mode and resume recording by simply pressing the RECORD/PAUSE button. If this feature is not activated, it is necessary to turn the Camcorder OFF, and then back to CAMERA to start recording again. The default setting from the factory is OFF mode.

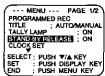


Before you begin...

- . Connect the Camcorder to a power source.
- Insert a cassette with record tab (see page 12).



Press the MENU button to display the MENU mode. Press UP ▲ or DOWN ▼ repeatedly to select STAND-BY RELEASE.



Press the DISPLAY button to set ON or OFF.

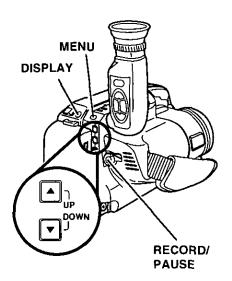
ON:

You can resume recording from Standby mode by pressing the RECORD/ PAUSE button.

OFF:

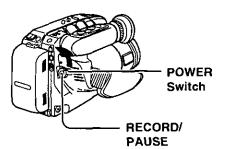
You must set the POWER switch to OFF, and then to CAMERA to release the Stand-by mode.

4 Press the MENU button to set your selection and exit the Menu mode.



Easy Edit Stand-by

If you stop recording but plan to resume within 24 hours, use the Edit Standby feature to make a smooth transition between scenes.



Press RECORD/PAUSE while recording.

2Set the POWER switch to OFF and leave the cassette in the Camcorder.

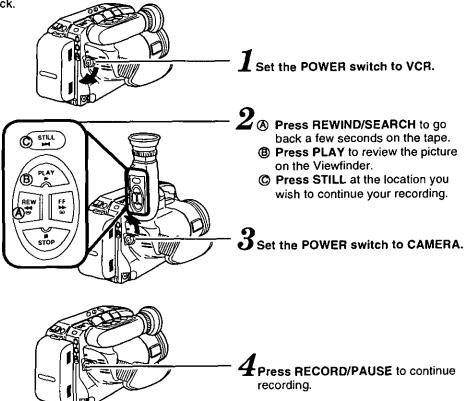
When ready to resume recording, set the POWER switch to CAMERA and press RECORD/PAUSE.

Note:

 If it is going to be longer than 24 hours before you resume recording, you will need to use the manual Easy Edit feature described below.

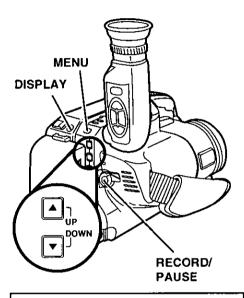
Manual Easy Editing

For proper continuity when taping from the Stop mode, or after changing the Battery Pack.



Programmed Recording

You can program the Camcorder to start and stop recording at a preset time. You can also do an Interval Recording which allows you to record 5 or 10 second intervals per minute.



10MIN. → 20MIN. → 30MIN. → TO TAPE END —

INTERVAL *2

10 SEC/MIN. → 5 SEC/MIN.

*1 Interval 5 SEC/MIN:
A 5 second recording is performed each minute.

*2 Interval 10 SEC/MIN:

A 10 second recording is performed each minute.

Note:

- The start time cannot be set for over 24 hours in advance from the current time.
- The Camcorder will automatically shut itself off when the tape reaches its end or 12 hours after an Interval recording is started.
- Set the POWER switch to OFF to cancel the Programmed Recording feature.

Before you begin...

- Connect the Camcorder to a power source.
 For extended periods of recording, it is recommended to use the AC Adaptor for a power source.
- . Insert a cassette with record tab (see page 12).
- . Set the POWER switch to CAMERA.

Press the MENU button to display the MENU mode. Press UP ▲ or DOWN ▼ repeatedly to select

PROGRAMMED REC.

Press the DISPLAY button to display the current time in the EVF.
To change the start time, press the DISPLAY button repeatedly. Each

press increases the time by 30 minutes.

RECTIME: 10:20PM
RECTIME: 10MIN.
SELECT: PUSH VIA KEY
SET: PUSH DISPLAY KEY
START: PUSH REC/PAUSE
CANCEL: PUSH MENU KEY
10:20:00PM

Press DOWN ▼ to select REC TIME.

Press the DISPLAY button repeatedly to select one of the recording lengths shown at left.

START: 10:30PM
GEOTIME: 10MIN.
SELECT: PUSH VA KEY
SET T: PUSH DISPLAY KEY
START: PUSH REOPAUSE
CANCEL: PUSH MENU KEY
10:20:00PM

If you want to cancel the setup, press the MENU button twice.

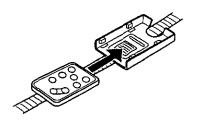
After setting the START and REC
TIME, press the REC/PAUSE button
to place the
Camcorder in
stand-by mode.

STAND-BY
START: 10:200PM
REC TIME: 10MEN.
10:20:00PM
JUNI 1 1998

The Camcorder will automatically start recording at the preset time and turn itself off when the recording is finished.

8-Function Remote Control

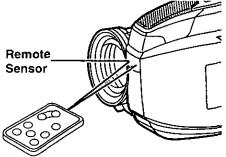
To Store Your Remote Control



This holder (supplied) can be attached to the shoulder strap (see page 21). When the Remote is not in use, slide it into the holder as shown.

Remote Control Operation

Operate the major functions of your Camcorder from up to 16 feet (5 m) (approx.) away. Aim the Remote Control at the Remote Sensor of the Camcorder and press the desired buttons.



Controlled Functions

Rec/Pause (see page 23)
T (telephoto) Zoom
W (wide angle) Zoom
Play (see page 29)
Fast Forward/Search (see page 30)
Rewind/Search (see page 29)
Stop (see page 29)
Still (see page 30)

Important Note:

 After 5 minutes in the Rec/Pause mode, the Carncorder will shut off to conserve battery life.
 If Camcorder is needed within 30 minutes, press the REC/PAUSE button down for about one second. This will resume power in the Record mode.

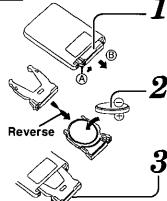
If more than 30 minutes have elapsed, set the POWER switch to OFF and then back to CAMERA before recording again.

Replace the Battery

Replace battery with Panasonic PART NO. VSBW0004 (CR2025) only. Use of another battery may present a risk of fire or explosion.

Caution-battery may explode if mistreated. Dispose of used battery promptly. Keep away from children.

Do not recharge, disassemble or dispose of in fire.



While pressing the stopper tab,

® pull the Battery Tray out.

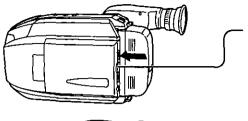
Insert the battery into the Battery Tray with the ⊕ mark facing down.

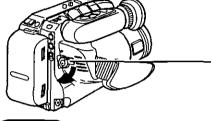
Do not reverse the polarity.

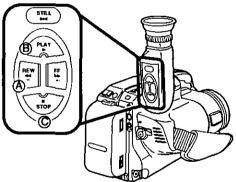
Replace the Battery Tray.

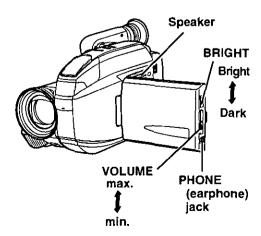
Playing Back your Recordings

Playback using the EVF or LCD Monitor









Before you begin...

- Connect the Camcorder to a power source.
- · Insert a recorded cassette.

Press the LCD-OPEN button to unlock the LCD monitor and swing it open.

2 Set the POWER switch to VCR.

- The LCD monitor turns on and off according to the POWER switch setting.
- When the LCD monitor is fully open, the Viewfinder automatically turns OFF
- When the LCD monitor is in the closed position, you can view your recording through the EVF.
- When not in use, close the LCD monitor so that it faces inward

Start Tape Playback.

- Press the REWIND/SEARCH button to rewind the tape.
- ® Press PLAY to start playback.
- © Press STOP to stop playback.
- Adjust the volume of the speaker or earphone (if connected) using the VOLUME control.
- Adjust the brightness of the LCD monitor using the BRIGHT control.

Auto Play

When the POWER switch is set to VCR, playback will automatically begin if the record tab has been removed on the cassette.

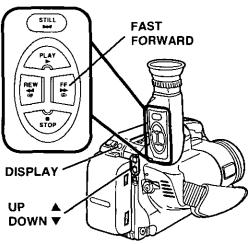
4When you are finished viewing, close the LCD monitor completely. (The EVF will turn on.)

Note:

- Using the LCD monitor reduces battery operating time.
- If you connect the earphone (M3 type, not supplied) to PHONE (earphone) jack, the sound from the speaker will be muted.

Playing Back your Recordings

Special Effects Playback



Before you begin...

- Connect the Palmcorder to a power source.
- · Insert a recorded cassette.
- . Set the POWER switch to VCR.

To rapidly locate a scene

Press PLAY then press FAST FORWARD/SEARCH or REWIND/ SEARCH for rapid visual search. Press again, or press PLAY to resume normal speed.

View a Still Picture

Press STILL to freeze the picture.

Press again to resume normal playback.

This feature works best in SLP mode (see pages 12, 23).

Search Speed

Standard Play (SP) Search is about 3 times the normal speed, and Super Long Play (SLP) Search is about 9 times the normal speed.

Note:

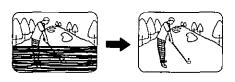
- During search playback, horizontal noise bars will appear and there will be no audio.
- To protect the tape and the video heads, your Palmcorder's operating modes will revert as follows:

STILL STAND-BY after 5 minutes.

STANDBY → POWER OFF after 5 minutes when using a Battery Pack.

· When the tape reaches its end during playback, or fast forward, it will rewind automatically.

Tracking Control



Auto Tracking

Continuously analyzes the signal of each recording for optimum picture quality.

Manual Tracking

To minimize the noise in some recordings, manual tracking may be necessary.

In Playback mode:

Press UP ▲ or DOWN ▼ until picture clears up.

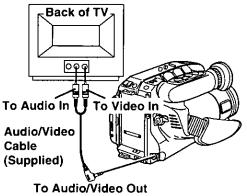
Press DISPLAY to return to Auto Tracking.

Playing Back your Recordings

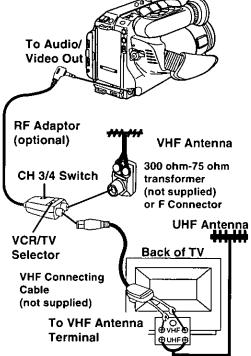
TV Playback or Viewing

Your Camcorder may be connected to a TV to play back tapes or to view what you are recording.

TV with AUDIO/VIDEO IN Jacks.



TV without AUDIO/VIDEO IN Jacks.



Before you begin...

- . Connect the Camcorder to a power source.
- 1 Set the POWER switch to VCR for tape playback.

Or, set to CAMERA to view what your Camcorder is recording.

2 Turn the TV ON and set it to LINE INPUT.

Check your TV operating instructions.

Note:

If your TV has no VIDEO or AUDIO IN jacks, select CH 3 or 4 on your TV to match the CH 3/4 switch setting on the OPTIONAL PV-RF16 RF Adaptor. Set the VCR/TV selector on the RF Adaptor to VCR for playback.

Start playback or begin a recording.

If you have connected the Camcorder to your TV using the PV-RF16 RF Adaptor and want to watch TV only:

Set the POWER switch to OFF on the Camcorder.

Then, set the VCR/TV Selector on the RF Adaptor to TV.

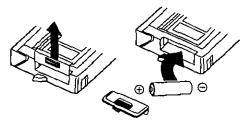
Now, turn the TV ON and select a channel.

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.

Playing Back your Recordings in your VCR

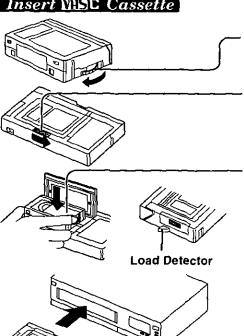
Playback using the PlayPak



Remove the Battery Compartment lid and insert the AA size battery.

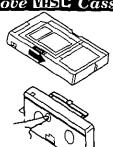
- · Make sure polarities are aligned properly.
- · When tape loading and unloading time becomes longer than normal, battery replacement is necessary.

Insert WISC Cassette



- Turn the Tape Wheel on the VHSIP cassette in the direction of the arrow to take up any slack.
- 2 Slide the RELEASE button in the direction of the arrow to open the PlayPak door.
- Insert the VHSIE cassette with the window facing up and to the left. Then, snap the lid shut.
 - . Be sure the cassette reel area under the PlayPak is free to turn while loading.
 - · Allow the Load Detector to fully retract before using the PlayPak in your standard VHS VCR.

Remove WISC Cassette



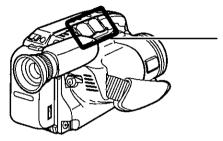
- Slide the RELEASE button and wait for the lid to open.
- Hold the PlayPak securely in one hand. Using your finger, reach through the hole in the bottom of the PlayPak Adaptor and push the tape out the top.

Four-Speed Power Zoom / Backlight

Four-Speed Power Zoom

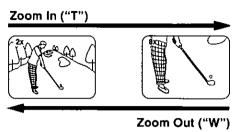
You can gradually zoom in for close ups or zoom out for wide angle shots.

The zooming speed ranges from a slow speed of 16 seconds to a fast 2 seconds according to the pressure applied to the zoom buttons.



Before you begin...

- . Connect the Camcorder to a power source.
- · Set the POWER switch to CAMERA.



Zoom slowly by lightly pressing the "T" (Telephoto) or the "W" (Wide Angle) side of the POWER ZOOM switch.

Zoom quickly by applying more pressure.

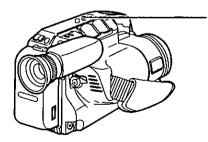
 The magnification level is displayed in the EVF.

Backlight

Use when recording a subject that is darker than the surrounding scene, in a shadowed area or when the light source is in back of your subject.

Before you begin...

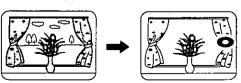
- · Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.



Press the BACKLIGHT button while recording.

When lighting conditions return to normal, press the BACKLIGHT button again to disengage.

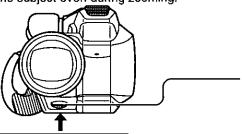
Indication appears in the EVF.



Focus

Auto Focus

The Camcorder will automatically focus on the subject even during zooming.



Before you begin...

- Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.

If necessary, **press MANUAL FOCUS** so that "MF" does not appear in the EVF.

Manual Focus

Use Manual Focus (MF) when recording:

- · a subject through glass.
- a subject that is far from the Camcorder with objects in the foreground.
- · a subject with distinct horizontal stripes.
- · a subject not centered in the Viewfinder.
- · a subject with a shiny surface.
- · an obliquely angled subject.
- · a bright, flat subject such as a white wall.
- · in low light situations.
- · a scene with fast motions, like a golf swing.

T

Press MANUAL FOCUS so that
"MF" (Manual Focus) appears in the
EVF.
EVF Indication



Press and hold the "T" side of the POWER ZOOM switch until the lens is zoomed in all the way (subject at maximum size).

Turn the MANUAL FOCUS control until the picture is in focus.

 It may be necessary to back away from the subject to focus the image properly.

Press the "W" side of the POWER ZOOM switch to frame the picture as desired.

 Re-focusing may be required when your Camcorder is aimed at a new scene.

Macro Focus (for close-ups)

Auto Focus will function as close as 1/2 inch (12.7mm) from the subject. Press the "W" side of the POWER ZOOM switch to the wide angle position. Then, bring the Camcorder as close to the subject as desired.

High Speed Shutter

To record high speed motion (e.g. a tennis stroke) for improved STILL or SLOW MOTION playback, when watching the tape on this Camcorder or a VHS 3 or 4 head VCR.

Before you begin...

- Connect the Camcorder to a power source.
- . Set the POWER switch to CAMERA.
- · Insert a cassette with record tab (see page 12).

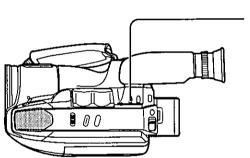
Auto Shutter

In the AUTO mode (no indication in the EVF), the Camcorder will automatically adjust the shutter speed from 1/60 to 1/350 according to the brightness of the subject.

AUTO mode is automatically selected whenever the POWER switch is set to CAMERA.

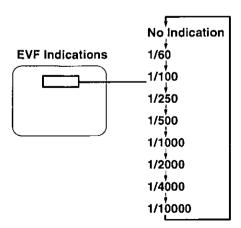
Manual Selection

The High Speed Shutter indicator flashes when the light level is inadequate. More light should be provided to achieve better picture quality and color.



1 Press HIGH SPEED SHUTTER while recording.

Press repeatedly to obtain one of the eight higher shutter speeds shown below.



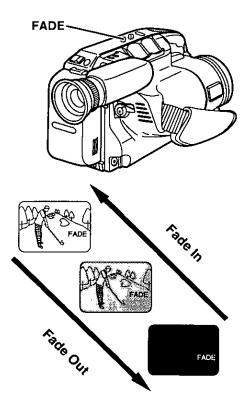
Note:

- For proper color reproduction, it is recommended that you use this feature outdoors. For indoor High Speed Shutter recording, additional halogen or tungsten light should be provided. Fluorescent light will degrade the picture quality.
- This feature requires ample light. More light is required for the fastest shutter speeds.
- The Auto Focus system may not operate properly in insufficient light when using the High Speed Shutter.

Fade

One-Touch Auto Fade

Make smooth scene transitions for a more professional look.



Before you begin...

- Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.

Fade In:

Starting the first scene with "fade in" can be very effective.

- **1** During the RECORD/PAUSE mode, press the FADE button to make "FADE" flash in the EVF.
- Press the RECORD/PAUSE button.
 The screen will turn black and the recording will start as picture and sound gradually fade in.

Fade Out:

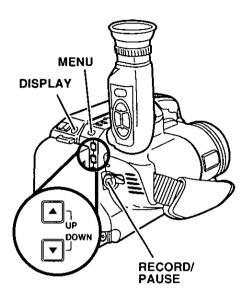
Use to create a soft ending or, when used together with fade in, a soft transition from one scene to the next.

- **1** Press the FADE button to make "FADE" flash in the EVF while recording.
- Press the RECORD/PAUSE button.
 The picture and sound will gradually fade out and the recording will PAUSE.

If FADE is accidentally pressed, simply press it again so that "FADE" disappears in the EVF.

Time Lapse

You can use this feature for security purposes by recording over a long period of time (up to 6 hours with a T-40 tape).



Note (in Time Lapse mode):

- · Sounds can not be recorded.
- · Picture quality is lower than SLP mode.
- The tape is recorded at 1/3 the speed of SLP.
- The tape is played back at normal SLP speed (3 times faster than it was originally recorded).
- Video noise may occur during playback.
- SP/SLP indications will not be displayed.
- . Titles will not be displayed.
- · Interval REC cannot be activated.
- Vertical jitter may occur depending on monitor used
- 10-Second Reminder (see page 19) will not display during Time Lapse recording.

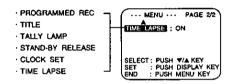
CAUTION: -

VCRs.

- Because recording system for the Time Lapse feature is not part of VHS standard, it is recommended to playback tapes recorded in Time Lapse mode on this Camcorder.
- Tapes not recorded in Time Lapse mode may be played back on other
 VHSTE type camcorders or VHS type

Before you begin...

- Connect the Camcorder to a power source.
 For extended Camcorder use, the AC Adaptor is recommended as the power source.
- Insert a cassette with record tab (see page 12).
- Set the POWER switch to CAMERA.
- Slide the TAPE SPEED Selector to SLP.
- Press the MENU button to display the MENU mode. Press UP ▲ or DOWN ▼ repeatedly to select TIME LAPSE.



Press the DISPLAY button to set ON or OFF.

ON:

You can create an extended recording (up to 6 hours). This recording can then be played back at x3 speed.

OFF:

An extended recording (up to 6 hours) will not be possible.

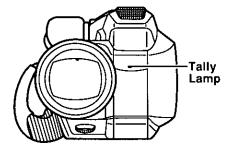
- Press the MENU button to set your selection and exit this screen.
- 4 Press RECORD/PAUSE button for recording START and STOP.



To cancel Time Lapse mode: Select TIME LAPSE; OFF from the menu screen.

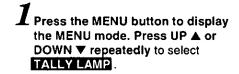
Tally Lamp

You can choose to have the Tally lamp come on or stay off during recording. The default setting from the factory is ON mode.





- . Connect the Camcorder to a power source.
- · Set the POWER switch to CAMERA.
- · Insert a cassette with record tab (see page 12).







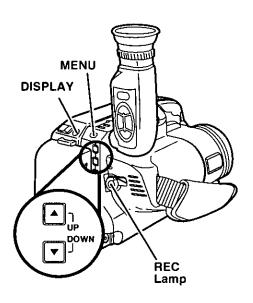
ON:

Tally Lamp comes on during recording.

OFF:

Tally Lamp and REC Lamp stay off during recording.

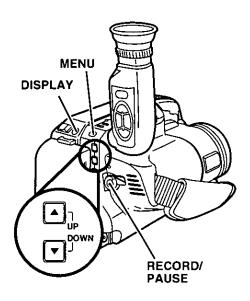
Press the MENU button to set your selection and exit the Menu mode.

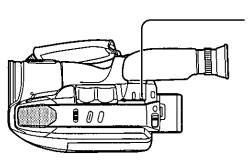


Intelligent Titler

Automatic Title

On selected holidays, such as New Year's Day, the Camcorder will automatically display the appropriate title when the power is first turned on.





Before you begin...

- . Connect the Camcorder to a power source.
- . Set the POWER switch to CAMERA.
- . Insert a cassette with record tab (see page 12).

Press the MENU button to display the MENU mode. Press UP ▲ or DOWN ▼ repeatedly to select TITLE.



- Press the DISPLAY button to select AUTO/MANUAL.
- Press the MENU button to set your selection and exit the Menu mode.
- To record the automatically displayed title, press the RECORD/ PAUSE button. (refer to page 40 for Automatic/ Manual Title Display List.)
- 5
 To remove the title while recording, press the TITLE button.

Note:

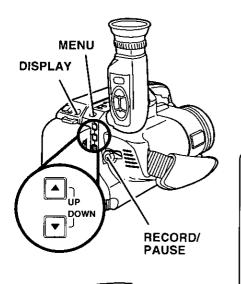
- To remove the title before recording, press the TITLE button repeatedly until the On Screen Display disappears.
- You can display HAPPY ANNIVERSARY, HAPPY BIRTHDAY, VACATION, WEDDING DAY, or A SPECIAL DAY by pressing the TITLE button repeatedly in Pause (Record mode).
- The Camcorder will not automatically display a title once it has been removed. To redisplay the title, press TITLE in Pause (Record mode).

Intelligent Titler

Automatic/Manual Title Display List

Dec. 31-Jan. 1	HAPPY NEW YEAR! / CHEERS!
Feb. 14	VALENTINE'S DAY / BE MY VALENTINE
2nd Sunday in May	HAPPY MOTHER'S DAY / WE LOVE YOU!
Last Monday in May	MEMORIAL DAY
3rd Sunday in Jun.	HAPPY FATHER'S DAY / WE LOVE YOU!
Jul. 4	INDEPENDENCE DAY
1st Monday in Sep.	LABOR DAY
Oct. 31	HAPPY HALLOWEEN
4th Thursday in Nov.	HAPPY THANKSGIVING
Dec. 24-25	MERRY CHRISTMAS / HO! HO! HO!
These Titles must be	HAPPY EASTER
displayed manually.	HAPPY ANNIVERSARY
	HAPPY BIRTHDAY
	VACATION
	WEDDING DAY
	A SPECIAL DAY

Manual Title



00

40

Before you begin...

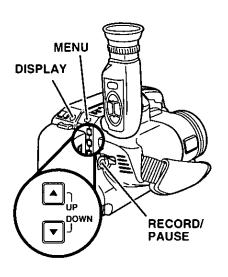
- Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.
- Insert a cassette with record tab (see page 12).
- Make sure that TITLE, in the Menu mode, is set to AUTO/MANUAL. (see steps 1~3 on page 39.)
- 2 In Pause (Record mode), press the TITLE button repeatedly to display the desired title from the list shown above.
- Press the RECORD/PAUSE button to record the displayed title.
- 4 Press the TITLE button while recording to remove the title.

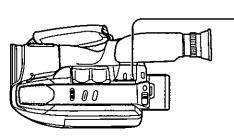
Note:

 To redisplay the title, press TITLE in Pause (Record mode).

Intelligent Titler

Phrase Title





EVF Indications

(no indication)
BEAUTIFUL
BRAVO!
CHEERS!
CONGRATULATIONS
GIMME A BREAK!
GOOD LUCK
I LOVE YOU
OOPS!
OUR LITTLE ANGEL
WAY TO GO

Before you begin...

- . Connect the Camcorder to a power source.
- Set the POWER switch to CAMERA.
- . Insert a cassette with record tab (see page 12).
- I Press the MENU button to display the MENU mode. Press UP ▲ or DOWN ▼ repeatedly to select TITLE.

PROGRAMMED REC

ITIES : PHRASE

TALLY LAMP : ON

STAND-BY RELEASE : OFF

CLOCK SET

SELECT: PUSH V/A KEY

SET : PUSH MENU KEY

END : PUSH MENU KEY

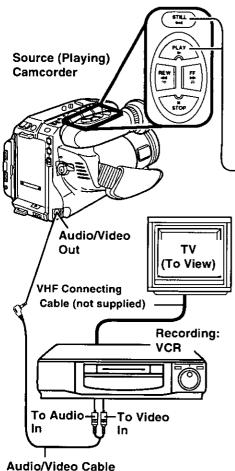
- Press the DISPLAY button to select PHRASE.
- Press the MENU button to set your selection and exit the Menu mode.
- In Pause (Record mode), press the TITLE button repeatedly to display the desired title from the list shown below.
- **5** Press the RECORD/PAUSE button to record the displayed title.
- 6 Press the TITLE button while recording to remove the title.

Note:

 To redisplay the title, press TITLE in Pause (Record mode).

Copying your Tapes (dubbing)

Main Operation



(supplied)

Monitor with your TV

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

Before you begin...

- Connect the Camcorder to VCR as shown below.
- Turn ON both units.
- Set the recording VCR's Input Signal Selector to LINE.
- Set the Camcorder POWER switch to VCR.
- Insert a pre-recorded tape into the Camcorder and a blank tape with a recording tab into your VCR.
- Press PLAY on the Camcorder and when you find the starting point, press STILL.
- Press REC on your VCR and then immediately press STILL/PAUSE.

VCR Buttons



- 4 Press STILL on the Camcorder and press STILL/PAUSE on the VCR to simultaneously start both units.
- **5**Press STOP on both units when dubbing is complete.

Note:

- Tapes recorded on other VCRs and used for playback in the Camcorder must be recorded in SP or SLP mode.
- For technical reasons, dubbing a tape may reduce its quality.

CAUTION: •

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

Palmcorder Accessory System

For ordering instructions, see the Accessory Order Form page.

Accessory #	Figure	Description	Price
PV-A17		AC Adaptor with DC Power Cable	\$130.00
P-V215		3.0Ah Battery Pack	\$60.00
PV-BP17/ P-V214		2.4Ah Battery Pack	\$50.00
PV-BP18/ P-V611		1.8Ah Battery Pack	\$45.00
PV-BP15/ P-V213		1.2Ah 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

Palmcorder Accessory Order Form

Please photo	copy this forn	n when placin	g an order.	
1. Palmcorder Mo	odel #			
2. Items Ordered			_	
Accessory #	Description	Price Each	Quantity	Total Price
			1	
			 	
			Subtotal	
		Your State	& Local Sales Tax	
		Sh	ipping & Handling	5.00
			Total Enclosed	
3. Method of paye	ment (check one)		Total Engloses	
☐ Check or l	Money Order encl	osed (NO C.O.D.	SHIPMENTS)	
□ VISA	Credit Ca	rd #		
☐ MasterCa	rd Expiration	Date		
☐ Discover	Customer	Signature		
	Make Cl	neck or Money Or	der to: MATSUSHIT	A ACCESSORIES
(Please do not se	end cash)	-		
4. Shipping inform	mation (UPS delive	ery requires comp	olete street address)	
Ship To:				
Mr. Mrs.				
Ms	Las	•	 Phone #:	
1 1131	Las	L)
Street Addr	ress			
City		State Zip	Night <u>(</u>)
	05 01 10 01 11 10 1		**************************************	0111 00 1111 05
TO OBTAIN ANY	OF OUR OMNIMOV	THE FOLLOWING	ACCESSORIES YOU 3:	CAN DO ANY OF
VISIT YOUR LOCAL PANASONIC DEALER OR				
CALL PANASONIC'S ACCESSORY ORDER LINE AT 1-800-211-7262 [9 AM-9 PM M-F, 9 AM-7 AM SAT-SUN, EST] OR				
MAIL THIS ORDER TO: PANASONIC SERVICES COMPANY ACCESSORY ORDER OFFICE				
]	20421 84th Avenue South Kent, WA. 98032			

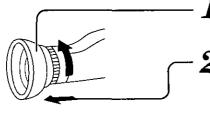
Notes Regarding Operations

Attaching Optical Filters and Lenses

Be careful not to touch the lens itself when attaching optical filters and lenses.

Cleaning the EVF (Electronic Viewfinder)

To Remove



Turn the EVF Eyepiece counterclockwise 1/8 of a turn.

2 Pull free.

Remove any lint or dust particles with a soft clean cloth being careful not to scratch the glass surfaces.

3 To re-install EVF

Line up the marks on the Eyepiece with the grooves inside the EVF shaft and attach. Turn the EVF clockwise 1/8 of a turn to lock in place.

pecifications

Power Source: Compact VHS Camcorder: DC 6V

AC Adaptor: 110/120/220/240V AC, 50/60 Hz

Battery: Nickel-Cadmium Type DC 6V

Compact VHS Camcorder: 6V DC 8.5 W (Max. 11.5 W) Power Consumption:

AC Adaptor: 24W

1.2W (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: 23:1 zoom lens, F1:1.6 with auto iris control

Focal length: 3.8mm - 87.4mm Power zoom function

Lens filter diameter: 52mm

Viewfinder: 0.5 inch (12.7mm) Electronic Viewfinder

LCD Monitor: 3.2 inch (81.2mm) Liquid Crystal Display

Minimum Illumination Required: 1.4 lx (F1:1.6) 0.14 footcandles

8 lx (F1:1.6) 0.8 footcandles (EIA Standard)

Earphone Jack: M3 Type

Operating Temperature: 32°F~104°F (0°C~40°C)

Operating Humidity: 10%~75%

Weight: Compact VHS Camcorder: 2.4 lbs. 1.10 kg

> AC Adaptor: 0.77 lbs. 0.35 kg

Dimensions: Compact VHS Camcorder:

4-3/8 (W) $\times 4-5/8$ (H) \times 7 (D) inch 110 (W) × 116 (H) × 177 (D) mm

AC Adaptor: 2-3/4 (W) \times 1-5/8 (H) \times 5-3/4 (D) inch 70 (W) \times 41 (H) \times 145 (D) mm

Weight and dimensions shown are approximate.

Designs and specifications are subject to change without notice.

Before Requesting Service

If you have a problem with your Camcorder, it may be something you can correct yourself. Check the list below for symptoms and corrections.

Symptom	Correction
No picture in the EVF	 Make sure a Power Source is connected. (pp. 9, 11) Make sure the POWER switch is set to VCR or CAMERA. (pp. 23, 29) Check the Dew Indicator. (p. 20) Make sure the battery is fully charged. (p. 9) Make sure all necessary cables are connected correctly and firmly. (p. 31)
Video cassette cannot be inserted	Make sure a Power Source is connected. (pp. 9, 11) Insert the cassette with the window side facing out. (p. 12)
Video cassette cannot be removed	Make sure a Power Source is connected. (pp. 9, 11)
No operation starts when operation buttons are pressed	Check for the Dew Indicator. (p. 20)
Recording cannot be done	Make sure the record tab is still intact. (p. 12) Check the Battery Indicator. (p. 18) Check the Dew Indicator. (p. 20)
Auto Focus does not operate	 Make sure the FOCUS button is set to AUTO. (p. 34) Make sure the unit is ON, with the POWER switch set to CAMERA (p. 23).
Sound from microphone cannot be monitored	Make sure the unit is set to REC or Record/Pause mode.
Camera picture is too dark	Make sure the HIGH SPEED SHUTTER button is OFF (p. 35).
No playback picture, or the playback picture is noisy or contains streaks	 Press UP ▲/DOWN ▼ button during playback (Tracking Control) (p. 30).
During playback, the picture shows motion or blurred action	Portions of the still picture where the normal speed motion was particularly rapid may produce this effect. This is normal.
The playback picture is fast and there is no sound	Make sure the TIME LAPSE feature is set to OFF in the Menu mode (p. 37).
"Panasonic IT'S VHS! SO ITS TAPES PLAY IN YOUR VCR" appears in the EVF and Monitor	Set the POWER switch to CAMERA, and then hold down STOP for 5 seconds (approx.) to exit the Demo mode (p 7).
If the top of your playback picture waves back and forth excessively	Because the playback signal is not as stable as an off the air TV signal, the top of your TV screen may be bent or unstable when the tape is played back. This symptom is more noticeable when a tape recorded on another VCR is played back. To solve this problem, locate the horizontal hold control on your TV. Turn it slowly to correct the wavy picture. If your TV does not have a horizontal hold control or adjusting the control does not help, some modifications may have to be made to the TV set. Technically this is called "Horizontal AFC time constant change." If such a problem exists, please contact your local TV service center. (Some nominal service charges may be required.)

Before Requesting Service

Cleaning Care for Video Heads



Clogged Video Head

- (a) Video Head Cleaning: Your Camcorder will not normally require head cleaning; however, it is possible that the heads may become clogged when playing an old or damaged tape. If the image on your screen resembles the photograph on the left while playing back a tape, the heads may require cleaning.
- (b) Cleaning the Heads: It is recommended that head cleaning be performed by a qualified service technician. Please contact your nearest Panasonic Service Center. An alternate solution is to obtain a head cleaning cassette. There are many types of cleaning cassettes, so be sure to follow the cleaning instructions carefully. Excessive use of the cleaning cassette could shorten head life. Use this cassette only when a head clogging symptom occurs.

Refer servicing to qualified service personnel.

For Your Information

Request for Service Notice

Please photocopy this form when making a request for service notice.

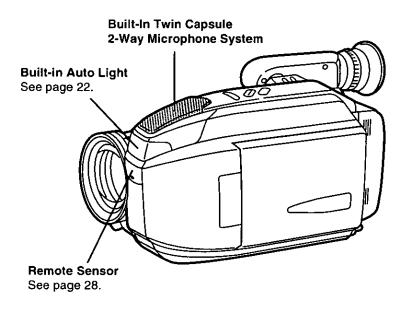
In the unlikely event this product needs service.

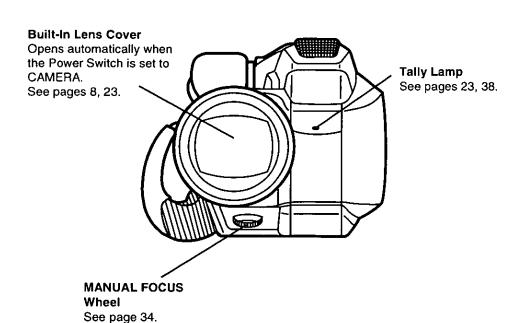
- Please include your proof of purchase.
 (Failure to due so will delay your repair.)
- To further speed your repair please provide an explanation of what is wrong with the unit and any symptom it is exhibiting.

Mail this completed form and your Proof of Purchase along with your unit to:
Panasonic Services Company
1705 N. Randall Road
Elgin, IL. 60123-7847

Attn: Camcorder Repair

Front View

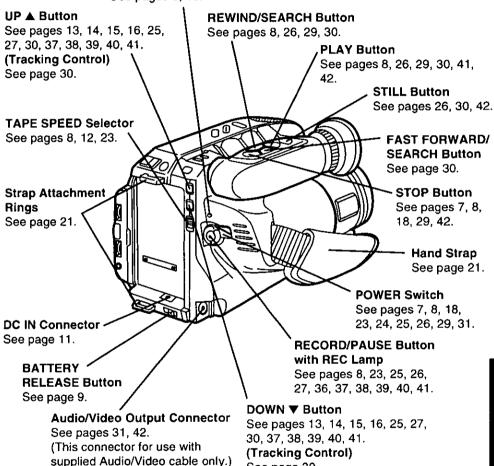




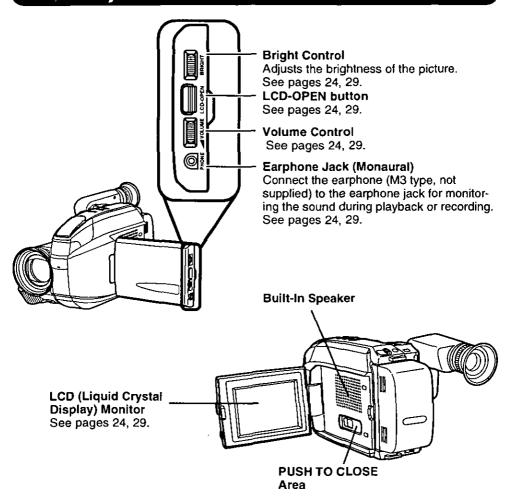
Rear View

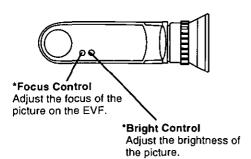
POWER Lamp

Lights when the Power Switch is set to VCR or CAMERA. See pages 8, 19.



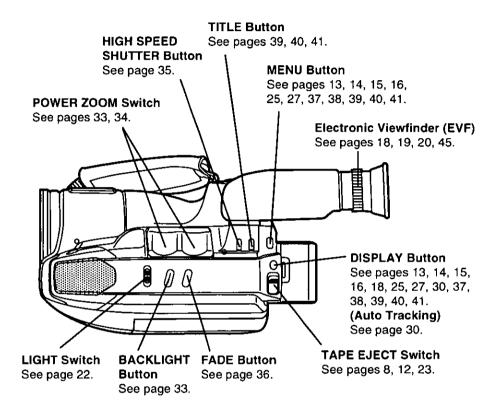
See page 30.



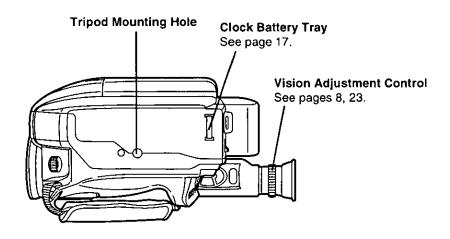


*Note: These controls have been set at the factory. It is not necessary to adjust these controls under normal circumstances. But, should it become necessary, be careful to make the adjustment with a small, slender screwdriver so as not to damage the miniature control.

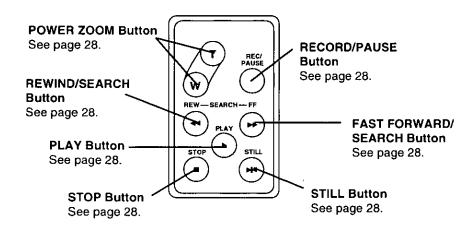
Top View



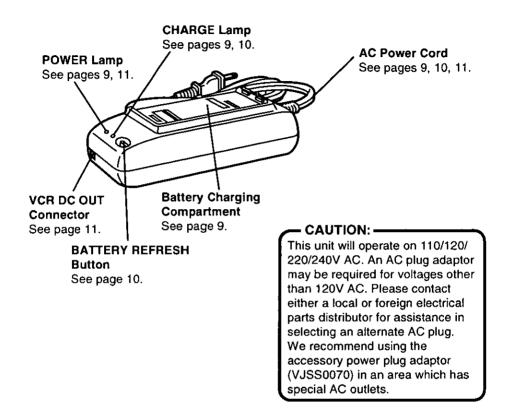
Underside View



8-Function Remote



AC Adaptor



Index

A		L		Titler 39, 40,	
AC Adaptor 2, 11, Accessories (Optional)	43 43	Light	22	Tracking Control V	30
Accessories (Supplied) Audio/Video Cable		M Macro Focus	34	VCR-MODE Indication VHF Connecting Cable	20
2, 31, Auto Daylight Saving Time	15	Manual Focus MENU Mode	34 13	31, Video Cassettes (tapes)	12
Auto Focus		0		Viewing	31
В		One-Touch Auto Fade	36	W	
Backlight	33	P		Warranty 57,	58
Battery Pack 2, 9, 10, Battery Remaining	43	PHONE (earphone) jack		Z	
Indication 18, Battery Warning	19 19	PLAY Indicator Playback 29, 30, 31,	19	Zoom In/Out	33
С		PlayPak 2, 32,	43		
Camera Recording 23, 24, 25, 26,	27	Power Supply 9, 10, Programmed Recording			
Car Battery Cord 11, CH 3/4 Switch Charging Battery		REC Indicator Remote Control 2, 28,	19 54		
Cleaning Care for Video Heads Clock Battery 2,	48 17	Remote Control Holder 2, 21,			
Clock Set 14, 15, 16,		Request for Service Notice	49		
D		RF Adaptor 31,	43		
DC Power Cable 2, 11, DEW Indication Display-off Mode	43 20 18	Safety Precautions Search Speed	3 30		
E		Self Demo Mode Shoulder Strap 2,	7 21		
Easy Edit Stand-by Erase Protection Tab EVF/LCD Monitor Indications 18, 19,	26 12 20	Special Effects Playback Specifications Stand-by Quick Release Still Picture	46 25 30		
F		Symptom/Correction T	47		
Fade	36		10		
н		10-Second Reminder Tab Tally Lamp	19 12 38		
High Speed Shutter High Speed Shutter	35	Tape Speed Tape Warning	12 19		
Indicator 20,	JO	Time Lapse	37		

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America One Panasonic Way Secaucus, New Jersey 07094 Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. Ave. 65 de Infantería. Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

PANASONIC/QUASAR Video Products Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the Warrantor") will repair this product with new or refurbished parts, free of charge, in the USA or Puerto Rico, in the event of a defect in materials or workmanship as follows (all time periods commence from the date of the original purchase):

PRODUCT	PARTS	LABOR
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR	NINETY (90) DAYS
	CCD MAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS
VCR_	ONE (1) YEAR	NINETY (90) DAYS
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS
MONITOR-VCR	ONE (1) YEAR, EXCEPT CRT	NINETY (90) DAYS
1	CRT - TWO (2) YEARS	CRT- NINETY (90) DAYS
İ	• •	CUSTOMER PÄYS ALL
Į.		LABOR CHARGES
		AFTER 90 DAYS

Monitor-VCR In-home or carry-in Service: 22" (diagonal) CRT / LCD and Larger Monitor-VCR Carry-in Service: 21" (diagonal) CRT / LCD and smaller

Batteries (if included) - New rechargeable batteries in exchange for defective rechargeable batteries for ten (10) days. Non-rechargeable batteries are not warranted.

<u>Tape</u> (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 1-800-211-PANA(7262), to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory. This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is required before warranty service is rendered.

This warranty only covers failures due to defects in materials and workmanship which occur during normal use and does not cover normal maintenance, including, but not limited to, video and audio head cleaning. The warranty does not cover damage which occurs in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, faulty installation, setup adjustments, improper antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lightning damage, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a PASC Factory Servicenter or a PASC authorized Servicenter, or damage that is attributable to acts of God.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above. THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the Panasonic Consumer Electronics Company address above. SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER. warvid 10/20/97

Warranty

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact:

800-211-PANA(7262), Monday-Friday 9am-9pm Saturday-Sunday 9am-7am, EST.

Web Site: http://WWW.Panasonic.com

You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

Product Repairs

Centralized Factory Servicenter

MAIL TO:

Panasonic Services Company 1705 N. Randall Road, Elgin, IL 60123-7847 Attention: Camcorder Repair

Please carefully pack and ship, prepaid and insured, to the Elgin centralized repair Factory Servicenter. While there will be added handling delays, you may bring your unit to one of the following locations who will then forward the unit to Elgin for repair.

Customer's in Puerto Rico, please ship or carry in to location below ("Service in Puerto Rico").

Factory Servicenters Locations

CALIFORNIA

6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco CA 94080

20201 Sherman Way Suite 102 Canoga Park, CA 91306

3878 Ruffin Road Suite A San Diego, CA 92123

COLORADO

1640 South Abilene Street Suite D Aurora, CO 80012

FLORIDA

3700 North 29th Avenue Suite 102 Hollywood, FL 33020

GEORGIA

8655 Roswell Road Suite 100 Atlanta, GA 30350

ILLINOIS

1703 North Randall Road Elgin, IL 60123 (Pick-up/drop-off only)

9060 Golf Road Niles, IL 60714

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

Chartiers Valley Shopping Center 1025 Washington Pike Bridgeville, PA 15017

TENNESSEE

919-8th Avenue South Nashville, TN 37203

TEXAS

7482 Harwin Drive Houston, TX 77036 13615 Welch Road Suite 101

Farmers Branch, TX 75244

WASHINGTON

20425-84th Avenue South Kent, WA 98032

HAWAII

99-859 Iwaiwa Street Alea, Hawali 96701 Phone (808) 488-1996 Fax (808) 486-4369

Service in Puerto Rico

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

Accessory Purchases:

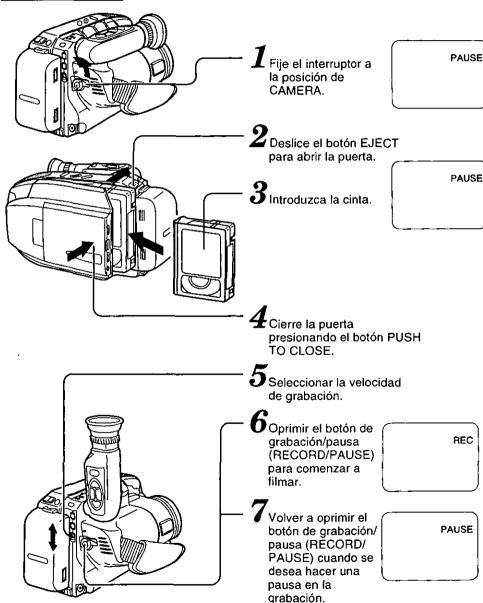
Customer Orders Only 800-211-PANA(7262)

Spanish Quick Use Guide/Guía Para Uso Rápido

PREPARATIVOS

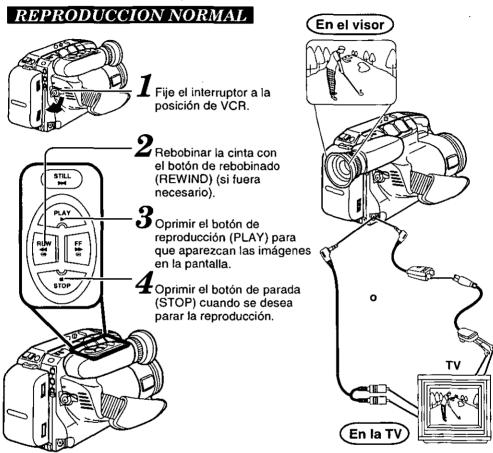
- Conectar la videocámara a una fuente de alimentación (batería, adaptador de CA o cable para batería de coche).
- · Encender el aparato.
- Introducir el casete en el compartimiento de casetes.

GRABACION



Spanish Quick Use Guide/Guía Para Uso Rápido

- Conectar la videocámara a una fuente de alimentación (batería, adaptador de CA o cable para batería de coche).
- · Encender el aparato.
- Introducir el casete en el compartimiento de casetes.



REPRODUCCION CON EFECTOS ESPECIALES

PARA LOCALIZAR RAPIDAMENTE UNA ESCENA ESPECIFICA

Oprimir el botón de localización (SEARCH).

PARA CONGELAR UNA IMAGEN

- Oprimir el botón de pausa/imagen fija (PAUSE/STILL).
- Oprimir nuevamente el botón cuando se desea continuar reproduciendo.

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