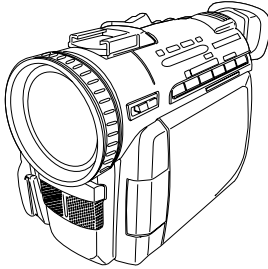




Digital Palmcorder®
PalmSight™
Mini DV

Panasonic®



Digital Video Camcorder
Operating Instructions
Model No. **PV-DV600D**

-TENTATIVE-

EXHIBIT# 5
FIG NO. _____
FCC ID: ACJ927129K
MODEL NO. PV-DV600D
OUR REF.: MKES99-F021



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

Spanish Quick Use Guide is included.
Guía para rápida consulta en español está incluida.

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

LSQTXXXX



Things You Should Know

Thank you for choosing Panasonic!

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

Date of Purchase

Dealer Purchased From

Dealer Address

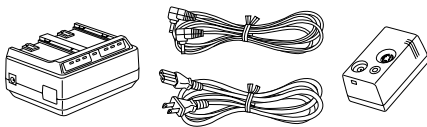
Dealer Phone No.

Model No.

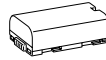
Serial No.

Unpack your Camcorder

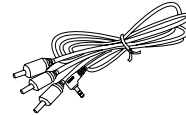
1 pc. AC Adaptor
(PV-DAC9)
with AC Cable, DC Cable
and Jack Box



1 pc. Battery Pack
(PV-DBP8)



1 pc. A/V Cable
(VJAW0043)



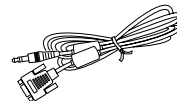
1 pc. Lens Cap
(LSYF0358)



1 pc. Shoulder Strap
(VYCW0225)



1 pc. PC Connection
Cable for Windows
(LSJA0236)



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



Things You Should Know



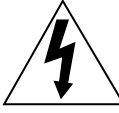

Safety Precautions

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

Your MiniDV Palmcorder is designed to record and play back in Standard Play (SP) mode only.

This Palmcorder is equipped with the HQ System to provide excellent video pictures. It is recommended that only cassette tapes that have been tested and inspected for use in VCR machines with the MiniDV mark be used.

Getting Started

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN			This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL				This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

The above markings are located on the appliance bottom cover.

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

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

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

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

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

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

3

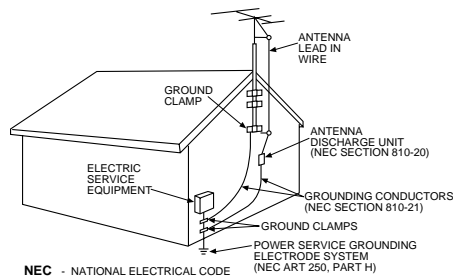


Important Safeguards

1. Read Instructions — All the safety and operating instructions should be read before the unit is operated.
2. Retain Instructions — The safety and operating instructions should be retained for future reference.
3. Heed Warnings — All warnings on the unit and in the operating instructions should be adhered to.
4. Follow Instructions — All operating and maintenance instructions should be followed.
5. Cleaning — Unplug this video unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a dry cloth for cleaning.
6. Attachments — Do not use attachments not recommended by the video product manufacturer as they may be hazardous.
7. Water and Moisture — Do not use this video unit near water — for example near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories — Do not place this video unit on an unstable cart, stand, tripod, bracket, or table. The 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.

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



Important Safeguards

Getting Started

15. **Power Lines** — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
16. **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.
19. **Damage Requiring Service** — Unplug this video unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - b. If any liquid has been spilled onto, or objects have fallen into the video unit.
 - c. If the video unit has been exposed to rain or water.
 - d. If the video unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video unit to its normal operation.
 - e. If the video unit has been dropped or the cabinet has been damaged.
 - f. When the video unit exhibits a distinct change in performance — this indicates a need for service.
20. **Replacement Parts** — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. **Safety Check**— Upon completion of any service or repairs to this video unit, ask the service technician to perform safety checks to determine that the video unit is in safe operating order.

Precautions

USE & LOCATION

- **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 PALMCORDER 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.

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

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



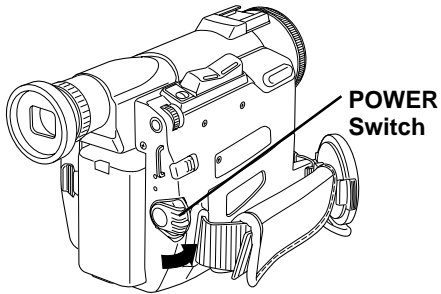
Self Demo Mode

Self Demo mode is on when screen at right appears. Do the steps below to turn off.

Getting Started

EVF Screen

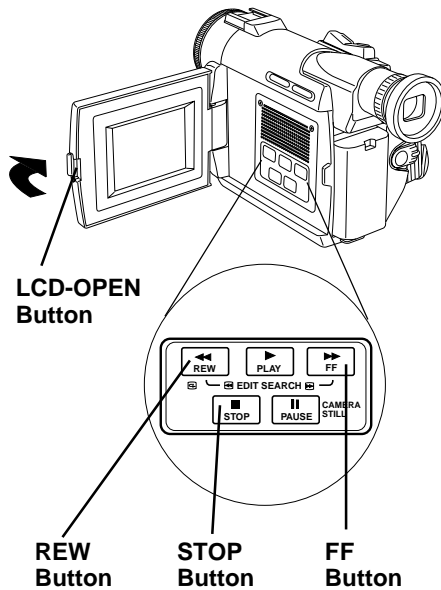
Panasonic



1 Set the POWER Switch to Camera.

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

3 Hold down the STOP Button for more than 5 seconds.



Note:

- Self Demo mode is cancelled if a cassette with rec tab closed is inserted (see pages 13, 14).
- Self Demo mode stops for 3 minutes if a function key is pressed.

To turn Self Demo mode on, do the following:

- Set the POWER Switch to CAMERA. Hold down FF and REW Button together for more than 5 seconds. Then, the Self Demo screen will appear on the screen.

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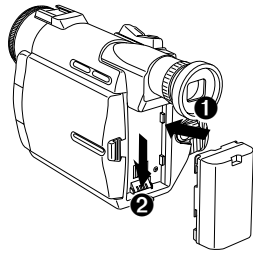


Quick Guide

Camera Recording

Before you begin...

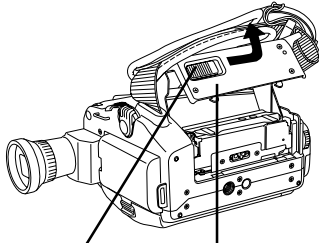
- Charge the Battery (see page 10).



- 1 Insert the Battery** and slide it down until it locks with a click.

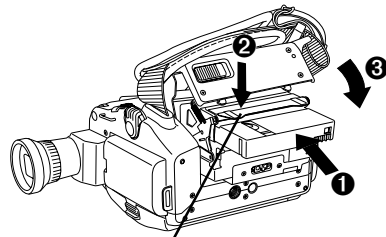
Note:

- The EVF is a fixed type and cannot be extended or retracted. DO NOT apply force.
- Do not lift or carry the Palmcorder by the EVF or by the LCD Monitor.



- 2 Slide the TAPE EJECT Switch** to open the Casette Compartment Cover.
 - The Casette Holder slides out.

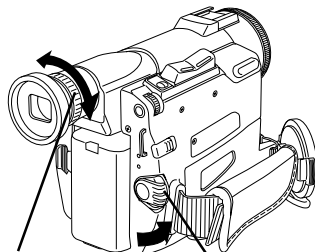
TAPE EJECT Switch Casette Compartment Cover



- 3 Insert a cassette** with its window side facing up.
 - Make sure the record tab is closed. (see page 14).

PUSH mark

- 4 Press on the PUSH mark** to close the upper Casette Compartment Cover.
 - The Casette Holder with the cassette slides back inside.



Vision Adjustment Control POWER Switch

- 5 Close the Casette Compartment Cover.**
- 6 Set the POWER Switch to CAMERA.**
- 7 Adjust the Vision Adjustment Control** to your eyesight.

(Continued on next page.)

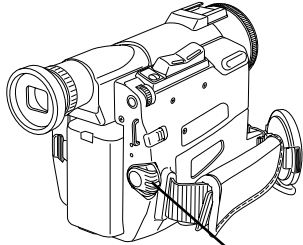
- 8 For assistance, call 1-800-211-PANA(7262)**





Quick Guide

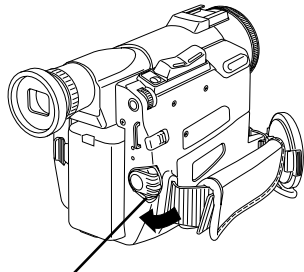
Getting Started



RECORD/
PAUSE Button

- 8** Press **RECORD/PAUSE Button** to start recording.
Press **RECORD/PAUSE Button** again to pause recording.

To Watch Playback in the LCD (Liquid Crystal Display)

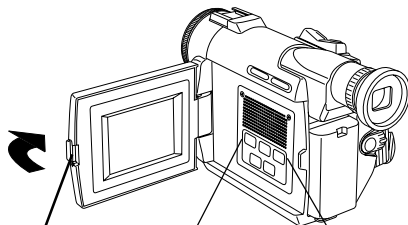


POWER Switch

- 1** Set the **POWER Switch** to **VCR**.

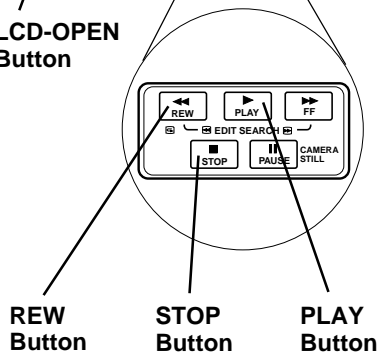
Note:

- The EVF is a fixed type and cannot be extended or retracted. DO NOT apply force.
- Do not lift or carry the Palmcorder by the EVF or by the LCD Monitor.



LCD-OPEN
Button

- 2** Press the **LCD-OPEN Button** to unlock the LCD monitor and swing it open.



- 3** Press **REW** to rewind the tape.

- 4** Press **PLAY** to start playback.

- 5** Press **STOP** to stop playback.

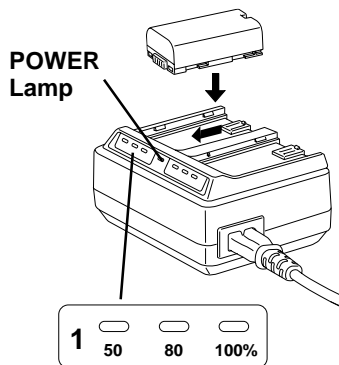
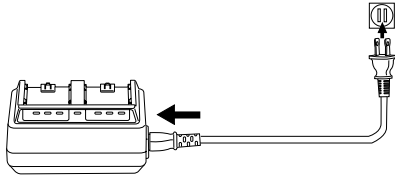
For assistance, call 1-800-211-PANA(7262)

9



Supplying Power

Charge the Battery Pack on the AC Adaptor



1 Connect and plug in the Cable as shown.

- POWER Lamp will light.
- Disconnect DC Cable if it is connected to AC Adaptor.

2 Attach the battery as shown to charge.

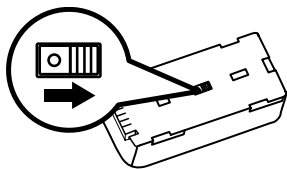
- Charge lamps on the AC Adaptor will flash and then turn solid green to indicate current charge level. When all 3 lamps are constantly on, the battery is fully charged. (approx. 1 hour)
Expect approx. 1 hour 15 minutes of operation when fully charged (EVF usage).

3 Remove the Battery.

Slide the Battery out and then lift up.

About the Charge Lamps

- The three Charge Lamps “50%”, “80%” and “100%” flash and then remain lit one after another to indicate how much the Battery has been charged. When all three lamps are lit, charging is finished.
- The Charge Lamps give a good approximate indication of the charging condition under normal ambient temperature. However, when charging at high or low temperature, the charge lamps may differ considerably from the actual charging condition.
- When you charge two batteries, charging starts from Battery 1. At this time, the Charging Lamps for Battery 2 show the remaining charge of Battery 2. (If the remaining charge is less than 50%, no Charge Lamp is lit.)



Battery Charging Confirmation Marker

Use this marker as a reminder to yourself when the battery is fully charged or in need of a charge. This marker performs no function and is for your reference only.

- The Battery is no longer serviceable if the operation time is very short, even after a sufficient charge.

10

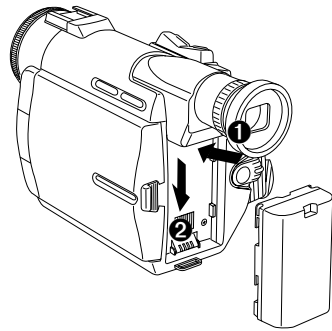
For assistance, call 1-800-211-PANA(7262)





Supplying Power

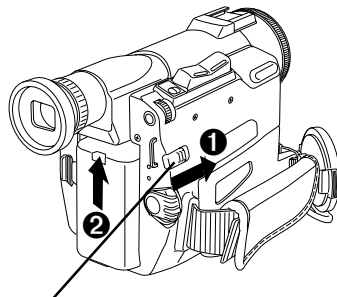
Insert/Remove the Battery Pack



Insert the Battery and slide it down until it locks with a click.

Note:

- The EVF is a fixed type and cannot be extended or retracted. DO NOT apply force.
- Do not lift or carry the Palmcorder by the EVF or by the LCD Monitor.



To remove the Battery:

Slide the Battery upward while sliding the BATTERY RELEASE Button.

BATTERY RELEASE Button

Battery Care

Caution:

- Charge only with specified charger.
- The Battery can be charged within a temperature range of 32° F (0° C) and 104° F (40° C).
- The Battery may be warm after charging or just after use. This is normal.
- Do not use an insufficiently charged or worn out Battery.
- In extreme cold surroundings, Battery charging time will increase.

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.

To avoid damage to the Battery:

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

To insure longer battery life:

- **While not in use, remove Battery from the Palmcorder and AC Adaptor and store in a cool, dark, dry place.** If you leave the Battery in the Palmcorder or on AC Adaptor, the Battery will no longer be rechargeable.
- Keep the Battery terminals clean.

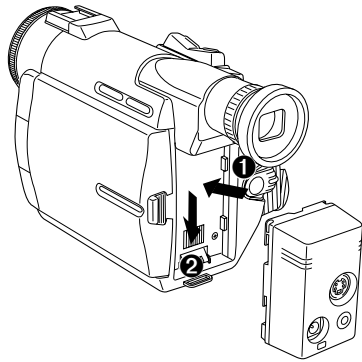
For assistance, call 1-800-211-PANA(7262)

11



Supplying Power

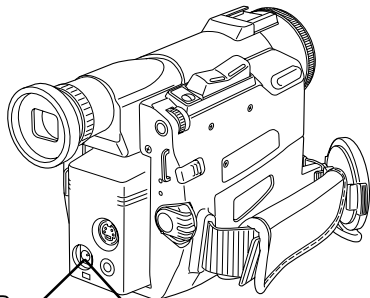
AC Adaptor



- 1 Insert the Jack Box** and slide it down until it locks with a click.

Note:

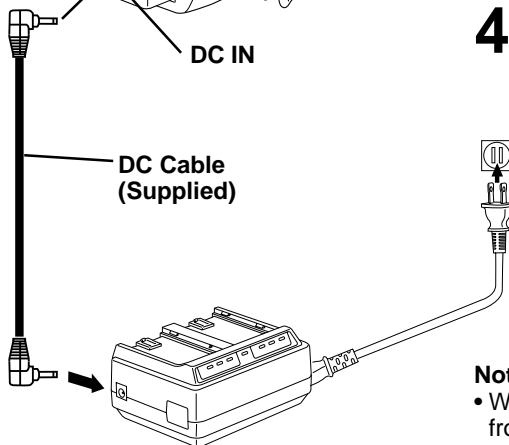
- The EVF is a fixed type and cannot be extended or retracted. DO NOT apply force.
- Do not lift or carry the Palmcorder by the EVF or by the LCD Monitor.



- 2 Insert the DC Cable** into the Jack Box.

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

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



Note:

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

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

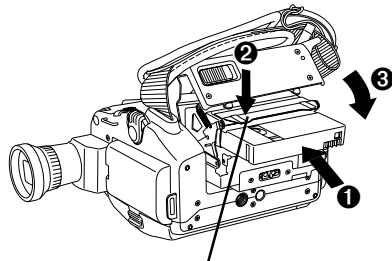
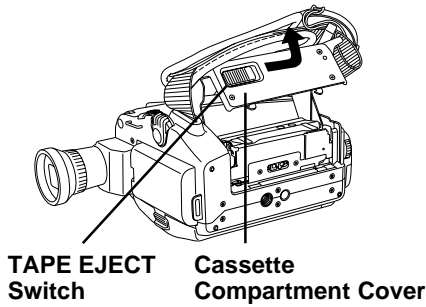




Cassette Information

Cassette Insertion

Connect the Palmcorder to a power source.



- 1** Slide the TAPE EJECT Switch to open the Cassette Compartment.
 - The Cassette Holder slides out.
- 2** Insert a cassette with its window side facing up.
- 3** Press on the PUSH mark to close the upper Cassette Compartment Cover.
 - The Cassette Holder with the cassette slides back inside.
- 4** Close the lower Cassette Compartment Cover.

Cassette Ejection

- If the Palmcorder is connected to a power source, the cassette can be inserted and ejected without turning the Palmcorder on.

- 1** Slide the TAPE EJECT Switch to open the Cassette Compartment.
 - The Cassette Holder slides out.
- 2** Pull the cassette straight out.

Hint for inserting the cassette

- When you insert a cassette that is partially recorded, use the Edit Search Function to search for the position from which you want to record again. Especially when you want to record again on a cassette that is already fully recorded, be sure to first locate the position where you want to add the new recording, before starting to record.

Notes

- If hand strap is tight it may prevent Cassette Holder from fully opening for tape insert or eject. Loosen hand strap if necessary.
- After the Cassette Holder has been retracted completely, close the lower Cassette Compartment Cover.
- When inserting the cassette, make sure it faces in the right direction and then push in completely.

If the Cassette Holder does not retract completely, take the following measures:

- Press PUSH mark to securely close the upper Cassette Compartment Cover.
- Turn the Palmcorder on again with the POWER Switch.

If the Cassette Holder does not slide out, take the following measures:

- Close the Cassette Compartment Cover completely and then open it again.

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





Cassette Information

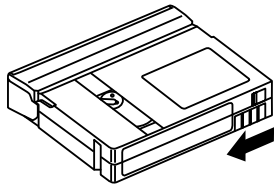
Record Speed/Playback Time

Use only those tapes having the ^{Mini} DV logo indicating the 6.35mm digital standard.

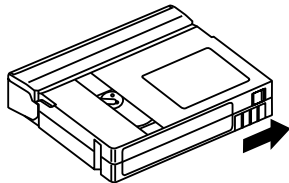
Cassette type	Record Speed/Playback time	
	SP	LP
AY-DVM30EA	30 minutes	45 minutes
AY-DVM60EA	60 minutes	90 minutes
AY-DVM80EA	80 minutes	120 minutes

Erase Protection

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



- 1 To prevent accidental erasure**
Slide the tab to the left (open).



- 2 To record again**
Slide the tab to the right (close).

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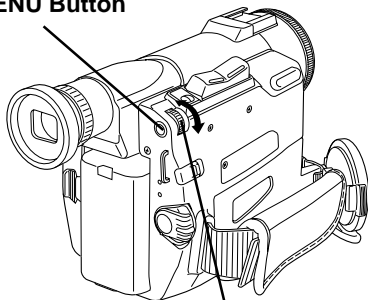


Setting the Clock

Set the Date and Time

The date and time is calculated, including leap year, up to DEC 31 2089.

MENU Button



SELECT SET WHEEL

EXAMPLE:

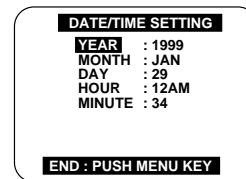
YEAR	: 1998	
↓	+ (PUSH) →	Rotate
YEAR	: 1999	
↓	+ (PUSH) →	Push
MONTH	: JAN	

Before you begin...

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

- 1** Press **MENU** to display the Camera Mode menu screen (see page 17).
- 2** Rotate the **SELECT SET WHEEL** to select **CLOCK-SET**.
- 3** Press **SELECT SET WHEEL** down to select **CLOCK-SET ON**. The **DATE/TIME SETTING** menu appears.
- 4** Rotate the **SELECT SET WHEEL** to select the desired numbers, then, press **SELECT SET WHEEL** down to fix that portion and move to the next. Adjust the shaded items for the Year, month, day, hour, and minute.

Getting Started



When time setting is completed, press the MENU Button to start the clock.

Note:

- If you should pass the current year, continue pressing down on the SELECT SET WHEEL until the year appears again.
- A built-in battery maintains clock operation. If the Palmcorder is not connected to a power source for a few months, the built-in battery may discharge and "CLOCK BATTERY" indication appears (see page 23).

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

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