Digital Palmcorder®



## Digital Video Camcorder **Operating Instructions** Models No. PV-DV351 **PV-DV701**

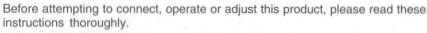


[PV-DV701 shown]

## MultiMediaCard<sup>™</sup> S≫

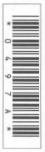






Spanish Quick Use Guide is included. Guía para rápida consulta en español está incluida.

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com



LSQT0497A

# 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

### Safety Precautions

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

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

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

Declaration of Conformity Model Number PV-DV351/PV-DV701 Trade Name Panasonic Responsibility Party Matsushita Electric Corporation of America Address One Panasonic Way Secaucus New Jersey 07094 Telephone Number 1-800-211-PANA(7262) 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

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

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

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

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

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# mportant Safeguards

- 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 senous injury to a child or adult, and senous 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

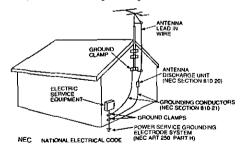


- 9 Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the video unit and to protect it from overheating. These openings must not be blocked or covered. Never place the video unit on a bed sofa, rug, or other similar surface or near or over 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
- 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 into, or objects have fallen onto, 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 Palmcorder and power supply should not be exposed to rain or moisture. Do
  not connect the power supply or operate your Palmcorder if it gets wet. Your Palmcorder has been designed for
  outdoor use, however it is not designed to sustain direct exposure to water rain, sleet snow, sand, dust, or direct
  splashing from a pool or even a cup of coffee. This action could permanently damage the internal parts of your
  Palmcorder. Do not attempt to disassemble this unit. There are no user serviceable parts inside. Unplug your
  Palmcorder from the power supply before cleaning.
- DO NOT AIM YOUR PALMCORDER 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 PALMCORDER TO EXTENDED HIGH TEMPERATURE Such as direct sunlight, inside a closed car, next to a heater, etc This action could permanently damage the internal parts of your Palmcorder
- 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 PALMCORDER OR THE POWER SUPPLY TURNED ON WHEN NOT IN USE
- STORAGE OF YOUR PALMCORDER Store and handle your Palmcorder in a manner that will not subject it to unnecessary movement (avoid shaking and striking) Your Palmcorder contains a sensitive pick-up device which could be damaged by improper handling or storage

#### CARE

- TO CLEAN YOUR PALMCORDER Do not use strong or abrasive detergents when cleaning your Palmcorder body
- TO PROTECT THE LENS Do not touch the surface of the lens with your hand Use a commercial Palmcorder lens solution and lens paper when cleaning the lens Improper cleaning can scratch the lens coating
- TO PROTECT THE FINISH OF YOUR PALMCORDER Before handling your Palmcorder, make sure your hands and face are free from any chemical products, such as suntan lotion, as it may damage the finish

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Getting Started

# Before Using

This Operating Instructions book is designed for use with models **PV-DV351** and **PV-DV701** The **PV-DV701** is the model used for illustrative purposes Features may vary, so please read carefully

#### Differences between models

Model Number	PV-DV351	PV-DV701
LCD Monitor	2 5 inch (63 5 mm) Liquid Crystal Display	3 5 inch (88 9 mm) Liquid Crystal Display
A/V Input	NO	YES
S-VIDEO Input	NO	YES
Remote Control	Optional	Supplied

### Unpack your Palmcorder

1 pc AC Adaptor (PV-DAC11) with AC Cable and DC Cable



1 pc 8 MB Memory 1 pc Battery Pack Card (LSFT0198A) (PV-DBP8A) or (LSFT0262)



1 pc Lens Cap (LSYF0518) with Lens Cap Strap (LSGQ0046)

1 pc USB Cable (LSJA0354)





1 pc Shoulder Strap (LSFC0016)



1 pc A/V Cable (LSJA0280)



1 pc Color Enhancement Light (VYKW3130) with Light Holder



1 pc CD-ROM of Driver Software for Windows 98/Me/2000, USB Device Driver for Windows 98/ Me/2000, CARD LINK (for USB) for Windows 98/ Me/2000, PHOTOVU LINK/Movie Messenger for Windows 98/Me/2000, ArcSoft Software for Windows 95/98/Me/2000 (LSFT0283)

 $^{\prime}\odot$ 

Microsoft<sup>®</sup> and Windows<sup>®</sup> are registered trademarks of Microsoft in the United States and other countries

Intel® Pentium® is a registered trademark

1 pc IR Remote Control (LSSQ0294)

I LINK is a trademark

with Battery (CR2025)

[PV-DV701 only]

PHOTOVU LINK/Movie Messenger is a registered trademark

IBM is a registered trademark of IBM Company

MultiMediaCard is a registered trademark SD is a trademark

### **Record Speed/Playback Time**

Use only those tapes having the ways logo indicating the 6 35 mm digital standard

Cassette type	Record Playbac	Speed/ ck time
	SP	LP
AY-DVM30EA	30 minutes	45 minutes
AY-DVM60EA	60 minutes	90 minutes
AY-DVM80EA	80 minutes	120 minutes
6	For assis	tance, please o

### **Erase Protection**

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

To prevent accidental erasure Slide the tab to the left (open)

récord tab

L To record again Slide the tab to the right (close)

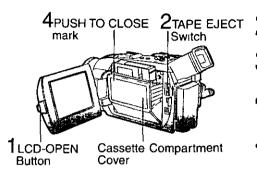


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# Before Using

## Easy Cassette Eject/Insertion

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



### Before you begin

 Connect the Palmcorder to a power source (See pages 11, 12)

## 1

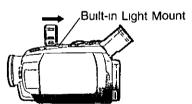
- Press LCD-OPEN to unlock the LCD monitor, and swing it fully open
- 2 Slide TAPE EJECT to open the Cassette Compartment Cover
  - Insert a cassette record tab up, window side facing out
- **Press PUSH TO CLOSE mark** to close the Cassette Compartment Cover
- To remove the cassette... Slide TAPE EJECT to open the Cassette Compartment Cover and pull the cassette tape straight out

#### Note

 When inserting the cassette, make sure it faces in the right direction and then push in completely

## Using the Light

To brighten the natural colors in a scene



#### Note

- Using Light reduces battery operating time
- Be sure to provide adequate ventilation if using Light in a hot environment for an extended period
- Be sure LIGHT is set to OFF when not in use
- Do not attempt to lift or carry the Palmcorder by holding the Enhancement Light
- If light bulb needs to be replaced, take Light to your nearest authorized Servicenter

### Before you begin

- Connect the Palmcorder to a power source (See pages 11, 12)
- Set POWER to CAMERA or M-CARD

1

- Slide Light into the Build-in Light Mount
- Be sure it locks into place

Press LIGHT to turn ON or OFF.

2LIGHT Button



RELEASE Button

#### To remove the Light

Press RELEASE and slide the Light out of the mount

#### Caution

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

# Before Using

## Attaching the Shoulder Strap

Undo the two strap ends from their buckles



Remove the buckle from one end of the strap



2

Thread the strap (with no buckle) through the Light Holder so that it faces outward Then, reinsert the buckle



## Adjust the Length

Loosen the strap from the Buckle and create a loop

Pull the strap firmly through the Buckle to shorten or lengthen the strap



## Attach the Light

1

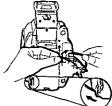
Insert the Light into the Light Holder for Storage

2 To remove the Light, press

RELEASE and slide Light out of the holder



4 Thread the strap ends through the Strap Attachment Rings



5

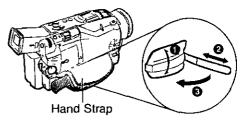
## Reinsert the strap ends through their buckles

Make sure the straps are not twisted



## -Hand Strap

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



## Lens Cap

#### Attaching the Lens Cap Strap

Thread the Lens Cap Strap through the Strap Attachment Ring as shown



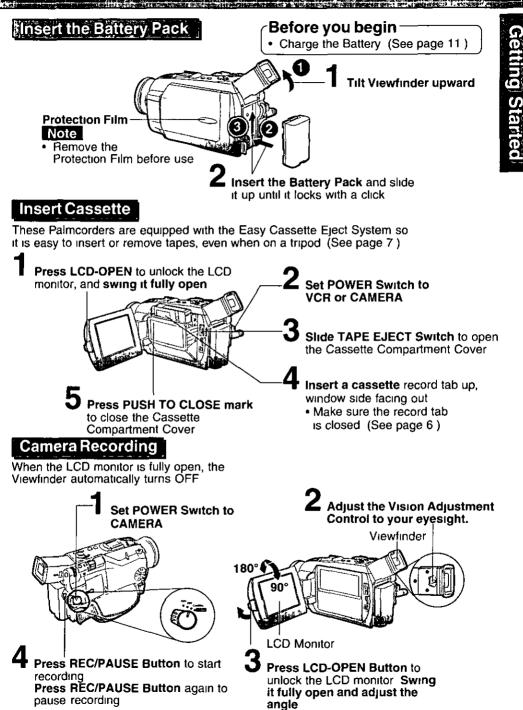
## Attaching the Lens Cap Cord to the Hand Strap

Remove the Hand Strap from the front clasp and thread the Strap through the loop in the Lens Cap Cord Reattach the Hand Strap



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## Quick Guide

### Insert Memory Card\*

#### Before you begin

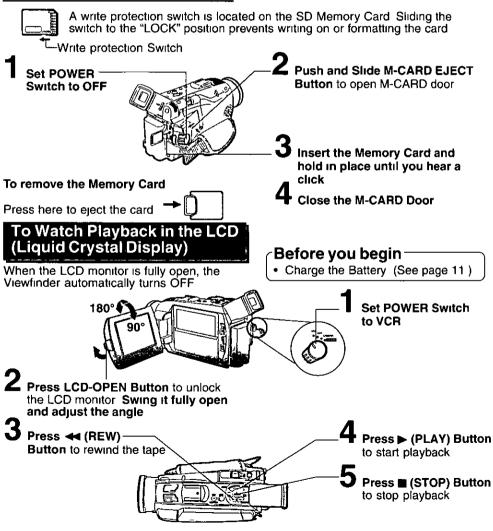
· Charge the Battery (See page 11)

\*Memory Card MultiMediaCard or SD Memory Card (See page 67) • Be sure to insert the Memory Card before using the Card PhotoShot (See page 32)

Below is a list of memory cards which can be used in this Palmcorder

Memory Card	Capacity
Memory Card (LSFT0198A) or (LSFT0262) (supplied)	8 MB
MultiMediaCard (SanDisk brand)	8 MB, 16 MB
SD Memory Card (optional) (See page 66)	16 MB, 32 MB, 64 MB

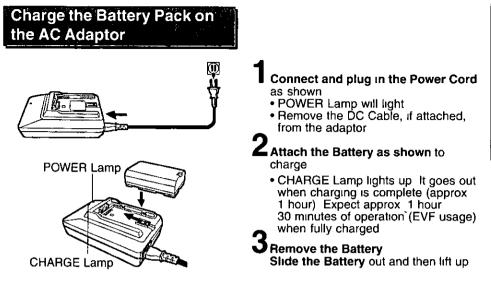
SD Memory Card write protection switch



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# Supplying Powe

setting) Started

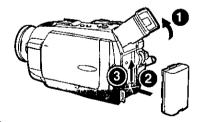


#### Note

#### About the Flashing of the CHARGE Lamp

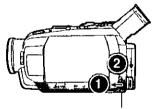
- . Charge the Battery within an ambient temperature range of 10 °C and 30 °C
- If charging is done in extreme low or high temperatures, Battery charge time increases CHARGE Lamp flashes when
  - The Battery is being charged, but charging is taking longer than normal
  - Charging is not possible Remove the Battery once, wait a short time, then re-attach it for charging

Insert the Battery Pack



Tilt Viewfinder upward

Insert the Battery Pack and slide it up until it locks with a click **Remove the Battery Pack** 



BATT RELEASE Switch

To remove the Battery Pack Slide the Battery downward while sliding the BATT RELEASE Switch

# Supplying Powe

### Battery Care

#### Caution:

- Charge only with specified charger.
- Charge the Battery within an ambient 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.
- If charging is done in extreme low or high temperatures, Battery charge time increases.

#### Safety precautions:

- Do not place 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.

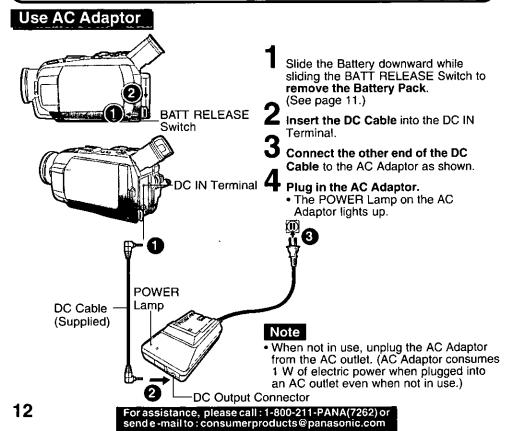
### - U.S.A. CONSUMERS: ATTENTION:

#### 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 the AC Adaptor, the Battery will no longer be rechargeable.
- · Keep the Battery terminals clean.

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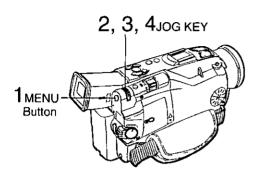
A lithium ion/polymer battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.

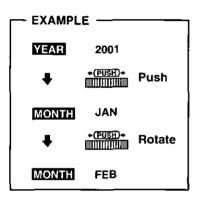


# Setting the Clo

## Set the Date and Time

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





#### Note

- To make corrections. Press JOG KEY repeatedly to move back to an item and correct
- 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 21)

Before vou beain -Connect the Palmcorder to a power

- source (See pages 11, 12)
- Set POWER to CAMERA or VCR

Press MENU to display the Camera or VCR mode menu screen (See page 14)

[ CAMERA MENU ]	[VCR MENU]
CAMERALMEND III FUNCISTR 2 ADJUST 3 REC MODE 4 STIUP 5 DISPLAY SETTING	VCA MERU IEPLAY FUNCION 2 REC MODE 3 PLAY MODE 4 MULTI BETTING 6 DISPLAY SETTING
4 LCD/EVF SETTING 7 PHOTO TITLE 8 SELECT ROTATE JDG KEY 8 SET PUSH JOG KEY EXIT PUSH WENU KEY	6 LCD/EVF SETTING SELECT ROTATE JOG KEY BET PUSH JOG KEY EXIT PUSH MENU KEY

2 Rotate JOG KEY to select DISPLAN SETURING, and then press JOG KEY to display the DISPLAY SETTING menu screen

- Botate JOG KEY to select OLOOK SEV, and then press JOG KEY to set to ON (See pages 16, 18)
  - The DATE/TIME SETTING menu is displayed
- Rotate JOG KEY to select YEAR, then press JOG KEY to fix and move to the next item Likewise, set the month, day, hour, and minutes

YE		201		
	TH	OC1	1	
DA'		18		
нон	U R	\$ PI		
ME 4 I	NUTE	10		
SELECT	PUSH	•	106	KEY
SET	ROTA	TE.	103	KEY
EXIT	PUSH	4 1	IT NU	KEY

When DATE/TIME setting is completed, press MENU three times to start the clock and exit

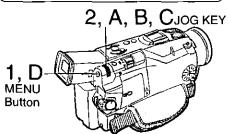
## Using the Palmcorder Menu

The Palmcorder features three menu displays: one for CAMERA mode (recording), one for M-CARD (Memory Card Photo Mode) and one for VCR mode (Playback). (See pages 15~18.)

- While the Menu screen is displayed, you cannot record on or play a tape.
- While recording, the Menu screen cannot be displayed.
- During playback, the Menu screen can be displayed.

#### Before you begin

- Connect the Palmcorder to a power source. (See pages 11, 12.)
- Set POWER to CAMERA or VCR.



## CAMERA Main menu

1: D. FUNCTION

CAMERA FUNCTION menu is displayed. To select D.FUNCTION or D.ZOOM.

- 2: ADJUST CAMERA ADJUST menu is displayed. To select PROG. AE, W. BALANCE, or H.S.S. (High Speed Shutter).
- 3: REC MODE CAMERA REC-MODE menu is displayed. To select REC-SPEED, AUDIO-REC, INDEX, SHUTTER, SELF-REC, or WIND-CUT.
- 4: SET-UP CAMERA SET-UP menu is displayed. To select REMOTE, BEEP, or MAGICVU.
- 5 : DISPLAY SETTING DISPLAY SETTING menu is displayed. To select DISPLAY, C.RESET, DATE/ TIME, or CLOCK-SET.
- 6 : LCD/EVF SETTING LCD/EVF SETTING menu is displayed. To select LCD BRIGHTNESS, LCD COLOR or EVF BRIGHTNESS.

### 7 : PHOTO TITLE

PHOTO TITLE menu is displayed. To select TITLE or MODE.

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## Displaying the MENU

Press MENU to display the CAMERA or VCR menu (according to the POWER setting).

**Rotate JOG KEY** to select a menu item.

# Setting the MENU Items (EX. VCR Mode menu)

A Press JOG KEY to set your selection.

**Rotate JOG KEY** to select a menu item.

VCR PLAT FUNCTION	YER PLAY FUNCTION
OF UNCTION	DFUNCTION
GOLE MIRRON STRONE	BOFF WIRROR STROP
MUSAIC SLIM TRAIL	MORALC BLIM TRAIL
STRETCH	ATRETCH
BEFFECT	DEFICI
BOFF SEPIA MOND	BOFF BEFIS NOND
	BZDCM BOFF OH
BZGON BOFF DN	
ABLECT: AOTATE JOG KEY	BELECT : ROTATE JOG RET
TET IPURK JOO KEY	- BET : PUBH JOB RET
EXIT IPHEN MENU KEY	.EXIT : PULH MENU KEY

- Press JOG KEY to set your selection.
  - The "O" mark indicates selection.

Press MENU twice to exit the menu.

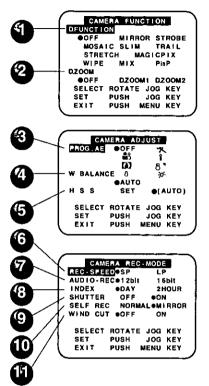
## VCR Main menu

#### 1: PLAY FUNCTION VCR PLAY FUNCTION menu is displayed. To select D. FUNCTION, D.EFFECT, or D.ZOOM.

- 2 : REC MODE VCR REC MODE menu is displayed. To select REC-SPEED, AUDIO-DUB, AUDIO-REC (PV-DV701 only), or AV-JACK (PV-DV701 only).
- 3: PLAY MODE VCR PLAY MODE menu is displayed. To select INDEX, AUDIO, REMOTE, or B.SEARCH.
- 4: MULTI SETTING
  - MULTI SETTING menu is displayed. To select SPEED.
- 5 : DISPLAY SETTING DISPLAY SETTING menu is displayed. To select DISPLAY, C.RESET, DATE/ TIME, or CLOCK-SET.
- 6: LCD/EVF SETTING LCD/EVF SETTING menu is displayed. To select LCD BRIGHTNESS, LCD COLOR or EVF BRIGHTNESS.

15

### Camera Mode Menu Screen





#### DIGITAL FUNCTION

(See pages 43, 45) To select one of the 10 digital functions Setting to OFF cancels the previously selected digital function

D ZOOM (See page 40) To select D ZOOM1 (from 10X to 25X) or D ZOOM2 (from 10X to 500X) Setting to OFF cancels the previously selected digital zoom

PROG AE (See page 44) To select one of the 5 Program AE modes Setting to OFF cancels the previously selected Program AE mode



9

W BALANCE (See page 42) To select one of the 3 White Balance modes

H S S (High Speed Shutter) (See page 49)

To select a desired shutter speed

REC-SPEED (See page 6) SP Normal recording speed mode

LP Recording time is 1.5 times as long as in the SP mode. For example, 120 minutes of recording is possible on a 80 minute tape

AUDIO-REC (See page 50)

- 12 bit. The sound is recorded in the 12 bit/32 kHz mode
- 16 bit The sound is recorded in the 16 bit/48 kHz high-quality mode

INDEX (See page 30)

- DAY An index signal is recorded when recording is restarted after the date has changed since the last recording
- 2 HOUR An index signal is recorded when recording is restarted after a lapse of more than 2 hours
- SHUTTER (See pages 32, 41) When set to ON, still pictures taken in the PhotoShot mode are recorded with a visual shutter effect and click sound
- SELF-REC (See page 23) NORMAL. During self-recording, the picture on the LCD Monitor is the same as it will be recorded MIRROR. During self-recording, the picture on the LCD Monitor is horizontally reversed

WIND-CUT (See page 22) To reduce sound distortion caused by wind hitting the microphone

## MENU OSD

<b>m</b>	
	CAMERA SET-UP
	REMOTE OFF
	OVCR1 VCR2
	MAGCVU OB/W BLUE
	GREEN GREEN
	<b>U</b>
	SELECT: ROTATE JOG KEY
	·SET : PUSH JOG KEY ·EXI : PUSH MENU KEY
	EXT PUSH MENU KET
15	DISPLAY SETTING
	DISPLAY OFF OLINEAR
<b>1</b> 6	MEMORY T.CODE
10	C.RESET OFF ON
	DATE/TIMEOOFF
17	D/T DATE
W /	CEUCK-SETOUPP ON
~/	-SELECT: ROTATE JOG KEY
<b>₽</b> ∕	SET : PUSH JOG KEY
$\mathbf{v}$	EXIT : PUSH MENU KEY
ß	
<b>1</b> 9	
19	LCD BRIGHTNESS
19	LCD BRIGHTNESS LOWIIIIHIGH
19	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR
19	LCD BRIGHTNESS LOWIIIIHIGH
19	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWILLIHIGH
19	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH
19	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY
<b>1</b> 9	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET : ROTATE JOG KEY
19	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET :ROTATE JOG KEY
<b>1</b> 9	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET : ROTATE JOG KEY EXIT : PUSH MENU KEY
<b>1</b> 9	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET : ROTATE JOG KEY
<b>1</b> 9	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT: PUSH JOG KEY SET : ROTATE JOG KEY EXIT : PUSH MENU KEY
<b>1</b> 9 <b>2</b> 0	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET : ROTATE JOG KEY SET : ROTATE JOG KEY EXIT : PUSH MENU KEY PHOTO TITLE
19 20 20	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT: PUSH JOG KEY SET : ROTATE JOG KEY EXIT : PUSH MENU KEY
19 20 21	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET : ROTATE JOG KEY SET : ROTATE JOG KEY EXIT : PUSH MENU KEY PHOTO TITLE
19 20 21	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET : ROTATE JOG KEY SET : ROTATE JOG KEY EXIT : PUSH MENU KEY PHOTO TITLE
19 20 21	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET :ROTATE JOG KEY SET :ROTATE JOG KEY EXIT :PUSH MENU KEY PHOTO TITLE TITLE OFF SET MODE WIPE OMIX
19 20 21	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET :AOTATE JOG KEY PHOTO TITLE THTLE OOFF SET MODE WIPE OMIX SELECT:ROTATE JOG KEY
19 20 21	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET : ROTATE JOG KEY EXIT :PUSH MENU KEY PHOTO TITLE TITLE OFF SET MODE WIPE OMIX SELECT:ROTATE JOG KEY SET : PUSH JOG KEY
19 20 21	LCD BRIGHTNESS LOWIIIIHIGH LCD COLOR LOWIIIIHIGH EVF BRIGHTNESS LOWIIIIHIGH SELECT:PUSH JOG KEY SET :AOTATE JOG KEY PHOTO TITLE THTLE OOFF SET MODE WIPE OMIX SELECT:ROTATE JOG KEY

#### REMOTE (See page 26.)

- VCR1: To receive signals from the Remote Control, set to VCR1.
  - VCR2: To receive signals from the Remote Control, set to VCR2.
  - OFF: To prevent reception of signals from the Remote Control.



Set to ON to hear beep when starting and stopping camera recording or when unusual conditions occur. To cancel the beep, set to OFF.

Palmcorder will beep:

Once when you start recording Twice when you stop recording Repeatedly when warning of unusual conditions.

(See page 21.)



#### (See page 43.)

To select one of the 3 MagicVu modes slide MAGICVU/0LUX Switch to ON.

- DISPLAY (See pages 19, 40.) To select the desired type of display and counter indication displayed on the LCD Monitor or in the viewfinder.
- C.RESET (See page 19.) Setting to ON resets the counter to zero.

**DATE/TIME** (See page 20.) The date and time can be set and displayed on the screen.



When set to ON, the date and time can be set on the screen.

- C LCD/EVF SETTING (See page 23.) Setting to ON displays the menu for adjusting the LCD brightness, color level, and the EVF brightness.
- **20 TITLE** (See page 38.)
  - Photo Title is recorded.
- MODE (See page 38.) To select one of the 2 Photo Title modes

л.

# MENU OSE

	VCB PLAY FUNCTION
	DEUNCTION
	OFF MIRROR STROE MOSAIC SLIM TRAIL
	STRETCH
	- DEFFECT
	OFF SEPIA MONO
_	-DZCOM OOFF ON
	SELECT ROTATE JOG KEY
	SET PUSH JOG KEY Exit Push Menu key
	<u> </u>
	VCR REC MODE
	AUDIO-DUBOOFF ON
	AUDIO-DUBBOFF ON
$\sim$	AV-JACK
	OUT / PHONES IN
/ 1	
	SELECT ROTATE JOG KEY SET PUSH JOG KEY
	EXIT PUSH MENU KEY
	VCR PLAY MODE
	-AUDIO OSTI ST2
-	MIX
	-REMOTE OOFF
_	VCR1 VCR2
	B SEARCH OFF ON
	SELECT ROTATE JOG KEY
	SET PUSH JOG KEY
	EXIT PUSH MENU KEY

SVODING SCORES OF STREET



**DIGITAL FUNCTION** (See page 45) To select one of the 6 digital functions

Setting to OFF cancels the previously selected digital function



D EFFECT (See page 45) To select one of the 2 digital picture effects for playback Setting to OFF cancels the previously selected digital effect

D ZOOM (See page 40) Set to ON to double the size of a playback image Setting to OFF cancels the previously selected digital zoom

#### REC-SPEED (See page 6) SP Normal recording speed mode

- LP Recording time is 1 5 times as long as in the SP mode For example, 120 minutes of recording is possible on an 80 minute tape
- 5 AUDIO-DUB (See page 50 ) Set to AUDIO-DUB "ON" in the Menu OSD to use the Audio Dub feature
  - AUDIO-REC (PV-DV701 only) (See page 50 )
    - 12 bit The sound is recorded in the 12 bit/32 kHz mode
    - 16 bit The sound is recorded in the 16 bit/48 kHz high-quality mode

#### AV-JACK (PV-DV701 only)

- (See pages 27, 31, 52, 53) To designate the A/V terminal as IN or OUT
- BINDEX (See pages 30, 41) To select the desired Index Search function
  - PHOTO To search for Photo shot pictures
  - SCENE To search for scenes marked with Index signal

AUDIO (See page 51)

To select the desired audio playback mode after performing audio dubbing in the 12 bit mode (SP mode only)

- ST1 The original sound alone is played back
- ST2 The dubbed sound alone is played back
- MIX The original sound and the dubbed sound are played back together

REMOTE (See page 26 )

- VCR1 To receive signals from the Remote Control, set to VCR1
- VCR2 To receive signals from the Remote Control, set to VCR2
- OFF To prevent reception of signals from the Remote Control

### B SEARCH (Blank Search)

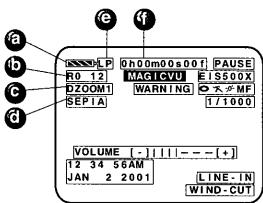
(See page 24) Select ON to go directly to a blank portion of the tape

# MENU ØSD

12 FAST SPEED FAST •NORM SLOW	SPEED (See page 47.) In Strobe Multi mode, used to select the interval at which a succession of still screens are captured from the playback picture. FAST : Every 0.3 seconds
.SET : PUSH JOG KEY         .EXIT : PUSH MENU KEY         13         14         15         15         16         17         16         17         17         18         19         19         19         19         19         10         11         15         16         17         17         10         10         11         12         13         14         15         15         16         17         17         17         17         17	<ul> <li>NORM : Every 0.6 seconds SLOW : Every 1.0 seconds</li> <li>DISPLAY (See page 19.) To select the desired type of display and counter indication displayed on the LCD Monitor or in the viewfinder.</li> <li>C.RESET (See page 19.) Setting to ON resets the counter to zero.</li> <li>DATE/TIME (See page 20.) The date and time can be set and displayed on the screen.</li> <li>CLOCK-SET (See page 13.)</li> </ul>
LOWITITHIGH LCD COLOR LOWITITHIGH EVF BRIGHTNESS LOWITITHIGH -SELECT: PUSH JOG KEY -SET : ROTATE JOG KEY -EXIT : PUSH MENU KEY M-CARD Mode Menu Screen	<ul> <li>When set to ON, the date and time can be set on the screen.</li> <li>LCD/EVF SETTING (See pages 23, 40.) Setting to ON displays the menu for adjusting the LCD brightness, color level, and the EVF brightness.</li> </ul>
[ Photo Rec Mode Menu Screen ]	<ul> <li>REC MODE (See page 32.) To select Photo Rec Mode.</li> <li>DISPLAY (See page 34.) Select to OFF to cancel all Displays on the screen.</li> <li>DCF (See page 34.) Select to OFF to cancel DCF No. on the screen.</li> </ul>
[ Photo Play Mode Menu Screen ] (2 (3 (3) (2) (2) (3) (2) (2) (2) (2) (2) (2) (2) (2	

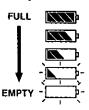
# Electronic Viewfinder/LCD Monitor Indications

Here are some of the basic indications which will appear on the Palmcorder EVF and LCD Monitor. Only Date and Time indications will be recorded onto the tape





**Battery Remaining** 







 It will take several seconds for the tape remaining indicator to operate after the tape starts moving



Digital Zoom and other Digital

Functions (See page 40) This display appears when the digital zoom function has been activated



Playback Effect (See page 45) This display appears when SEPIA or MONO is selected in VCR menu

Tape Speed Indication (See page 15) Indicates the tape speed (SP or LP)

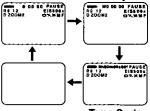


#### Display ON/OFF and Counter/Time Code

The indication switches as shown below when the desired "DISPLAY" mode is selected from the menu (See pages 16, 18)

(See pages 16, 18) • When OFF is selected, all displays are turned off

#### LinearTime Counter Memory Counter





#### Memory Counter M 0.00 00

The Palmcorder will stop whenever it reaches the point where the counter was previously set to M 0 00 00 during audio dub, fast forward, or rewind

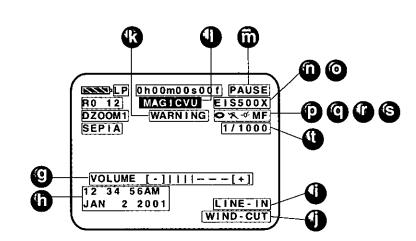
#### Time Code 0h00m00s00f

The Palmcorder calculates and displays exactly where you are on any tape in terms of hours, minutes, seconds, and frames (30 frames = 1 second)

This display cannot be reset

#### IMPORTANT NOTE

- Display must be set to ON for MF, AE, W BALANCE or BACK LIGHT indications to be displayed on the EVF or LCD Panel when selected
- C RESET does not work when DISPLAY is set to OFF and T CODE





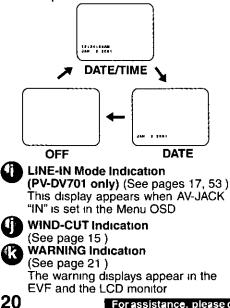
Volume Display (See page 27) The volume bar appears when the volume of the built-in speaker is being adjusted

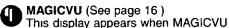


Date and Time Indication (See pages 16, 18)

HICOL

As shown below, the date and time indication changes each time DATE/TIME is selected from the Palmcorder's MENU (see pages 16, 18) or the DATE/TIME Button is pressed on the remote





	is set	to ON	
m	Таре	Mode	Ind
W	REC		Re

FF

dications Recording PHOTO PhotoShot recording PAUSE Paused during recording PLAY Playback R⊳ Repeat Playback CHK Recording Check Fast forward REW Rewind  $\supset \supset$ FF Search **REW Search** Blank Search BLANK SEARCH Index Search **Digital EIS Indications** (See page 39)



Zoom Magnification Level (See page 40)



Backlight Indication (See page 48)



**PROGRAM-AE Indication** (See page 44)



White Balance Indication (See page 42)



Manual Focus Indication (See page 48)



Shutter Mode indication (See page 49)

For assistance, please call: 1-800-211-PANA(7262) or sende-mail to : consumerproducts@panasonic.com

#### D Y I 6

The following warning	g displays appear in the EVF and the LCD monitor
Indications	Condition
-စ်ာ(- TAPE NOT INSERTED	If the Palmcorder is in CAMERA mode without a cassette inserted, "[0]" will flash and "TAPE NOT INSERTED" will appear for 5 seconds Recording will not start
-) du -) du CHECK REC TAB	If the Palmcorder is in CAMERA mode with the cassette sliding record tab opened, "[00]" will flash and "CHECK REC TAB" will appear for 5 seconds Recording will not start
- cannot rec	When Audio dub is performed and the sliding record tab is open, or a blank portion of tape is detected, "@o]" will flash and "CANNOT REC" will appear for 5 seconds
	When the tape is about to end in REC mode, " END" will flash and "TAPE END" will appear for 5 seconds
INCOMPATIBLE TAPE	When an incompatible tape is detected, "INCOMPATIBLE TAPE" will appear for 5 seconds
NEED HEAD CLEANING	If the video heads require cleaning, "NEED HEAD CLEANING" will appear for 5 seconds
REMOTE	When the Palmcorder and remote are not set to the same mode (VCR1 or VCR2), "CHECK REMOTE MODE (REMOTE)" appears for 5 seconds Also appears when the Palmcorder is first turned on
CANNOT REC LP-MODE	When an AUDIO DUB is attempted on a pre-recorded LP tape, "CANNOT REC LP-MODE" will appear for 5 seconds
-WARNING - DEW DETECTED	If excessive moisture condenses in the unit, "WARNING" will flash, "DEW DETECTED" will appear, and the Palmcorder will automatically turn OFF in 15 seconds In this case, wait until the indicator no longer flashes when your Palmcorder is turned ON again
	When a battery recharge is necessary, "WARNING" will flash, "LOW BATTERY" will appear, and the Palmcorder will automatically turn OFF in 15 seconds (See page 19)
CLOCK BATTERY	When the built-in lithium clock battery is discharged, "CLOCK BATTERY" will appear To re-charge the lithium clock battery, connect the AC Adaptor to the Palmcorder Recharging takes approx 4 hours Reset the clock after charging
INCOMPATIBLE DATA	If you play tape recorded in a format other than NTSC or you try to copy a copy-protected data "INCOMPATIBLE DATA" will appear
NO SPACE LEFT	When a still image is transferred from a tape to an already full Memory Card, "NO SPACE LEFT" appears
DISCONNECT DV CABLE	If the Palmcorder is in M-CARD mode or Photo Title (CAMERA mode) and the DV Interface Cable (i LINK) is connected, "DISCONNECT DV CABLE" appears In this case, remove the DV Interface Cable (i LINK) from the Palmcorder

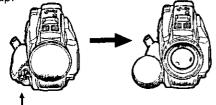
æ

6

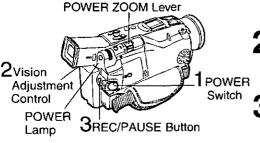
# Camera Recording

### Simple Recording

Remove the lens cap and clip it to the hand strap.

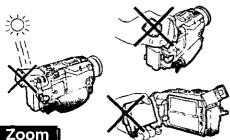


Clip here



#### WARNING:

- 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 lift, or carry, the Palmcorder by the EVF or the LCD Monitor.



## Zoom

Before you begin

- Connect the Palmcorder to a power. source. (See pages 11, 12.)
- Insert a cassette with record tab closed. ٠ (See page 6.)

### Set POWER to CAMERA.

- The POWER Lamp lights red.
- Be sure POWER is fully turned to CAMERA position. EVF



**REC/PAUSE** mode

- 2 With the Viewfinder Eye Cup up to your eye, adjust the Vision Adjustment Control to your eyesight. (See page 9.)
  - Press REC/PAUSE to start recording. . "REC" is displayed on the screen. Press REC/PAUSE again to pause recording.
    - To reduce microphone wind noise, set the WIND-CUT to ON. (See WIND- CUT on page 15.)
- . When the Palmcorder 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 whenever possible.

#### To conserve power After 5 minutes, the Record/Pause mode will automatically change to Standby mode. To resume recording, set POWER to OFF and then ON again.

- You can gradually zoom in for close ups or zoom out for wide angle shots.
- Zoom slowly : by lightly pressing the "T" (Telephoto) or the "W" (Wide Angle) side of the POWER ZOOM Lever.
- Zoom quickly : by applying more pressure.

### Note

 The zooming speed ranges from a slow 17 seconds to a fast 1.5 seconds according to the amount of pressure applied to the POWER ZOOM Lever.



For assistance, please call : 1-800-211-PANA(7262) or sende-mail to: consumerproducts@panasonic.com

## Using the LCD Monitor

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





#### To adjust the LCD BRIGHTNESS or COLOR

- A Press MENU to display the main menu screen
- B Rotate JOG KEY to select COD/EXF SEINING from the main menu screen (See pages 16, 18)
- C Press JOG KEY to display the LCD/ EVF SETTING screen
- D Press JOG KEY to select LCD BRIGHTNESS or LCD COLOR, then rotate JOG KEY to adjust
- EPress MENU twice to exit this mode

# Camera Recording

### Before you begin

- Connect the Palmcorder to a power source (See pages 11, 12)
- Insert a cassette with record tab closed (See page 6)

Press LCD-OPEN to unlock the LCD monitor

#### 2 Swing the LCD monitor fully open and adjust the viewing angle

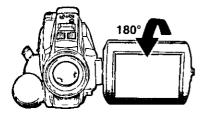
- The LCD monitor will automatically turn on
- When the LCD monitor is completely closed, it will shut off automatically to save power
- Adjust the LCD Brightness and/or color of the LCD monitor if necessary Please refer to "To adjust the LCD BRIGHTNESS or COLOR" to the left

**3** Start recording (See page 22 ) Note

- Using the LCD monitor will reduce battery operating time
- Close the LCD monitor completely when not in use



### Self Recording



Rotate the LCD monitor 180 degrees so it

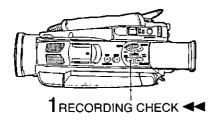
faces the same direction as the lens to record yourself (CAMERA mode) The picture in the LCD monitor will appear reversed

Set <u>SEUFFREC</u> to MIRROR (see page 15) in the Camera mode menu screen to see the picture as it is actually being recorded

# Camera Recording

### RecordingCheck

To playback the final few seconds of the last recorded scene in the REC/PAUSE mode.



#### Press RECORDING CHECK briefly in the REC/PAUSE mode.

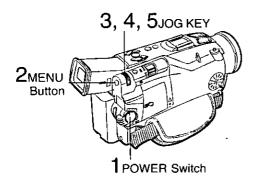
The [CHK] indication appears. After checking, the Palmcorder returns to the REC/PAUSE mode.

 For Recording Check, the Palmcorder must be in the same mode (SP or LP) as was used for recording, otherwise the playback picture is distorted.



### ElankSearch

You can go directly to a blank portion of tape and start recording exactly where you left off.



### Set POWER to VCR.

- The POWER Lamp lights red.
- Be sure POWER is fully turned to VCR position.
- Press MENU to display the VCR mode menu screen.
- Rotate JOG KEY to select PLAY MODE, then press JOG KEY to display the VCR PLAY MODE menu screen.
- Rotate JOG KEY to select **DISEATION** in the VCR PLAY MODE menu. (See page 17.)
  - Press JOG KEY to select ON.
  - Press MENU twice to exit.
  - "BLANK" will appear on the screen.

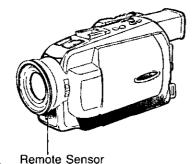


Remote Control (PV+DV7701 only)

### Control Control

# \* The Remote Control is supplied with model PV-DV701 only However, these same functions can be operated on model PV-DV351 if the optional Remote Control is purchased

You can operate the major functions of your Palmcorder from up to approximately 16 feet (5 m) away (indoors) Aim the IR Remote Control toward the front of the Palmcorder and press the desired buttons (Remote Sensor is located under the lens)



#### To operate Camera functions:

Set POWER to CAMERA

To operate VCR functions Set POWER to VCR



**Controlled Functions** 

- Rec/Pause (See page 22)
- Tele (Zoom) (See page 22)
- Wide (Zoom) (See page 22 )
- Date/Time (See page 20 )
- Reset (See page 51)
- PhotoShot (See page 41)
- Display On TV (See page 31)
- Counter/Time Code (See page 19)
- Audio Dubbing (See page 50 )
- Record (See pages 53, 54)
- Menu (See page 14)
- Play (See page 27)

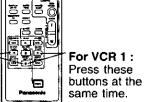
- FF/Search (See page 28)
- REW/Search (See page 28)
- Pause/Select (See pages 14, 28)
- Stop/Set (See pages 14, 27)
- Slow/Frame Advance (Forward) (See pages 28, 29)
- Slow/Frame Advance (Backward) (See pages 28, 29)
- Index Search (Forward) (See page 30 )
- Index Search (Backward) (See page 30 )
- Speaker Volume (See page 27 )

# Remote Control (PV-DV701 or

### Remote Controlling Two Palmcorders

You can control any two Panasonic Palmcorders with one Remote control. In order for the remote to distinguish between the two units, it is necessary to set one of the Palmcorders to VCR 2. On the remote, press VCR 1 or VCR 2 to control the desired Palmcorder.





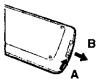
REMOTE

#### Note

 When the Palmcorder and remote are not set to the same mode (VCR1 or VCR2), "CHECK REMOTE MODE (REMOTE)" will appear.

### **Replace the Battery**

PV-DV701:Supplied PV-DV351:Optional





While pressing the tab in the direction of the arrow (A) with your fingernail, pull out the Battery Tray (B).

Set POWER to VCR or CAMERA.

The POWER Lamp lights red.
Be sure POWER is fully turned to

VCR or CAMERA position.

Press MENU to display the VCR or

Rotate JOG KEY to select SERUP in

PLAY MODE in the VCR mode menu

Rotate JOG KEY to select REMOVE.

VCR 2. (See pages 16, 17). Leave the other Palmcorder set to VCR1.

Set the Remote Control to VCR 1 or

Palmcorder you wish to control. (See

and then press JOG KEY to select

the CAMERA mode menu screen or

screen, then press JOG KEY to display the CAMERA SET-UP or VCR

PLAY MODE menu screen.

VCR 2 to correspond with the

 After replacing the Remote Control Battery, the remote will default to VCR 1.

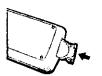
above left.)

CAMERA mode menu screen.

Insert the battery into the Battery Tray with the  $\oplus$  mark facing up.

Do not reverse the polarity.

Insert the Battery Tray.

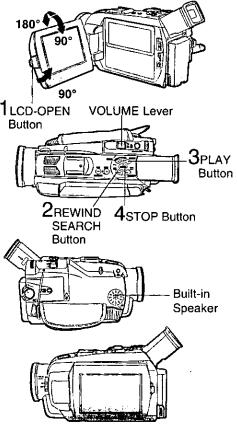


Replace battery with Panasonic PART NO. VSBW0004 (CR2025) only. Use of another battery may present a risk of fire or explosion. Caution: battery may explode if mistreated. Dispose of used battery properly. Keep away from children. Do not recharge, disassemble or dispose of in a fire.

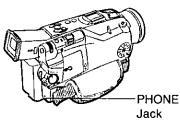
For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com

## Playbackusing the LCD Monitors

You can also use the LCD monitor to playback your recording.



You can place the Palmcorder on a table, etc. for viewing. Rotate the LCD Monitor 180° and swing it up against the Palmcorder body as shown.



#### Before you begin

- Connect the Palmcorder to a power source. (See pages 11, 12.)
- Insert a recorded cassette.

ack Your Recording

· Set POWER to VCR.

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

- Press <- (REWIND/SEARCH) to rewind the tape.
- **B** Press ► (PLAY) to start playback.

### To adjust the volume:

**Press VOLUME** to adjust the volume of the built-in speaker.

• The volume setting screen appears.

Press ■ (STOP) to stop playback.

- When the tape reaches its beginning during rewind or rewind search, it will stop automatically.
- If you press PLAY for more than 5 seconds in STOP mode, the Palmcorder will go into Repeat Playback mode when the tape reaches its end. The letter "R ▷" will appear in the EVF and LCD monitor. To exit the Repeat Playback mode, turn the Palmcorder OFF.



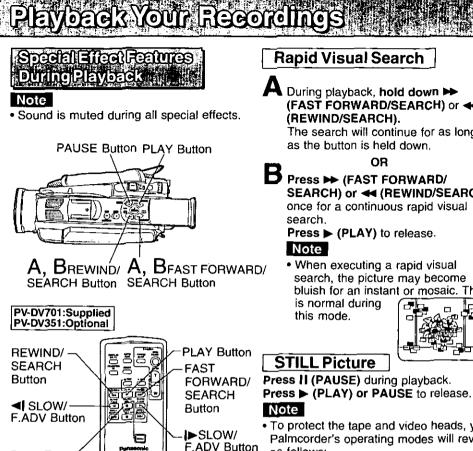
#### Note

- When a tape recorded in LP mode on another digital video camera is played back on this unit, the picture may appear mosaic.
- Using the LCD monitor reduces battery operating time.
- You can connect earphones (not supplied) to the PHONE Jack.

For PV-DV701 users:

To use the PHONE Jack, first set to AV-JACK "OUT/PHONES" in the VCR Mode Menu. (See page 17.)





### Fast Forward/Rewind Check

Monitor normal picture playback during fast forward or rewind.

- Hold down Image (FAST FORWARD/ SEARCH) during fast forward.
- Hold down << (REWIND/SEARCH)</li> during rewind.
- The picture will appear for as long as the button is held down

# (FAST FORWARD/SEARCH) or 🔫

The search will continue for as long

## SEARCH) or **4** (REWIND/SEARCH)

bluish for an instant or mosaic. This



 To protect the tape and video heads, your Palmcorder's operating modes will revert as follows:

STILL - STOP (after 3 minutes.)

### Slow Motion Playback

#### (Remote Control Only)

Forward Slow = Press IN SLOW/F.ADV during play. Reverse Slow = Press < SLOW/F.ADV during play.

Press PLAY to release. (During reverse slow motion playback, time code indication may not change regularly.)

#### Note

- Palmcorder will automatically STOP when in slow motion for more than 10 minutes.
- During slow motion playback, picture may move up and down. This is normal.
- When you start or stop slow motion playback, the picture may become bluish for an instant.

PAUSE

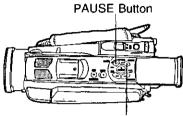
Button

# layback Your Reco

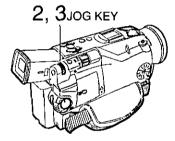
### Special Effect Features During Playback (Continued)

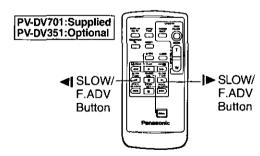
#### Note

• Sound is muted during all special effects.



PLAY Button





## Variable Speed Search

- Press ► (PLAY) to start playback.
- Press JOG KEY for about 1 second.
- **Rotate JOG KEY** to adjust the playback speed.
  - Rotate JOG KEY clockwise for forward playback.
  - Rotate JOG KEY counterclockwise for reverse playback.

#### To return to normal playback:

Press ► (PLAY). Playback will continue at normal speed.

#### Note

- The Variable Speed Search function offers a choice of six playback speeds (1/5X, 1X, 2X, 5X, 10X, 20X) both in forward and reverse directions.
- The review playback at the 1X speed is playback in reverse direction.
- During the Variable Speed Search (at a speed other than 1X), mosaic-like patterns will appear in the picture.
- During the Variable Speed Search, sound is muted.

## Jog Frame by Frame Search

#### (Palmcorder only)

During Still mode, **rotate JOG KEY** to advance or reverse the picture one frame at a time.

### Frame by Frame Advance

(Remote Control Only)

Press PAUSE during playback.

**Press |► SLOW/F.ADV** to do a frame by frame advance.

Press **I** SLOW/F.ADV to do a frame by frame reverse.

Press PLAY to release.

#### Note

- If you hold down SLOW/F.ADV, you can see a continuous series of still images at a slower speed than normal slow mode.
- During frame by frame advance, a few frames may move automatically, and the picture may become bluish for an instant.



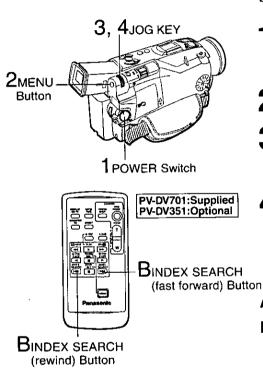
# Playback Your Recordings

Special Effect Features

Note

**During Playback (Continued)** 

Sound is muted during all special effects.



#### Top Scan

If you hold down INDEX SEARCH more than 2 seconds, the Palmcorder will scan for scenes (or PhotoShots) and playback the first few seconds of each.

To cancel this function, press PLAY or STOP.

### Note

 Search will not work if there is succession of PhotoShots.

## Index Forward/Reverse Search

#### (Remote Control Only)

Search for a particular scene by using the electronic index marks placed at the beginning of each recording.

## Set the POWER to VCR.

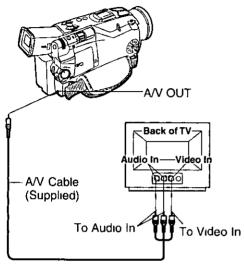
- The POWER lamp lights red.
- Be sure POWER is fully turned to VCR position.
- Press MENU to display the VCR mode menu screen.
- **Rotate JOG KEY** to select **PUAM MODE**, then **press JOG KEY** to display the VCR PLAY MODE menu screen.
- Rotate JOG KEY to select **NDEX**, and then **press JOG KEY** to select PHOTO or SCENE. (See page 17.)
- A Place the Palmcorder in the VCR STOP mode.
- B Press INDEX SEARCH fast forward or rewind for the number of recordings (indexes) forward or back you want to view. The Palmcorder will advance or rewind to the desired recording and automatically start playback.
- The number of times you pressed the button is displayed in the EVF and the LCD monitor if you set INDEX on the VCR menu to SCENE. (See page 17.) (Ex., if you press the button three times, "S3" will appear.)
- If the interval between scenes is less than 1 minute, index search may not operate properly.
- Response time from pressing the button and the change in the scene number is quite slow. Do not press INDEX SEARCH rapidly and continuously.
- During Reverse Index Search mode, playback will not begin when a tape rewinds all the way to the beginning.

For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com

## Playback Your Recordings

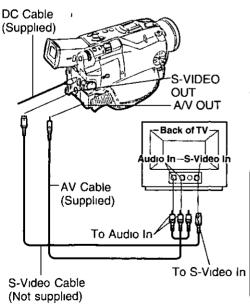
# View Recording/Playback on vour TV

[TV with AUDIO/VIDEO IN Jacks]



#### [TV with S-VIDEO IN Jacks ]

For best Chrominance and Luminance, use the S-Video connection if available on your  $\mathsf{TV}$ 



#### Before you begin

 When using S-VIDEO Connector, insert the DC Cable into the DC IN Terminal (See page 12)

## Set POWER to CAMERA or VCR

To view what the Palmcorder is recording or to playback a tape on your TV

### Note

#### • For PV-DV701 users

When using VCR mode, first set to AV-JACK "OUT/PHONES" in the VCR Mode Menu (See page 17)

# **2** Turn your TV ON and set it to LINE INPUT or S-VIDEO

Check your TV operating instructions for further information

## **3** Start playback or begin a recording

- Make sure the Palmcorder and TV are turned off while connecting
- Please connect the A/V Cable securely

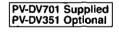
### Note

#### (Remote Control Only)

You can display the various EVF and LCD indications on your TV by pressing DISPLAY ON TV on remote control Press again to remove the indications

DISPLAY ON TV Button





#### 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

# **Card** Features

## Card PhotoShot

You can record still images to a Memory Card.

#### Warning

 Memory Card will not work when DV interface Cable (i.LINK) is connected.

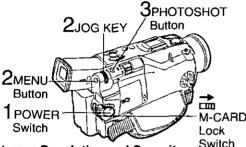


Image Resolution and Capacity (supplied 8MB Memory Card)

REC Mode	Image Resolution	Capacity
FINE	640 x 480	Approx. 60 images
NORMAL	320 x 240	Approx. 210 images

- The number of images given for each mode applies when all images are taken in same mode.
- You can change recording modes at any time before capturing an image.
- The number of images that can be captured may differ depending on the subject. After capturing an image, the number may not decrease, or it may decrease by two. This is normal.

### Warning

 While "PROCESSING" is displayed, DO NOT turn off the Palmcorder or unplug the AC Adaptor (supplied) because this will cause irreversible damage to the memory.

## -Cautions for the Memory Card

- Before you begin
  Connect the Palmcorder to a power source. (See pages 11, 12.)
  Set POWER to OFF before inserting a Memory Card. (See page 10.)
  Slide the M-CARD Lock Switch to unlock, then set POWER to M-CARD.
  The POWER lamp lights red.
  Be sure POWER is fully turned to be a sure POWER in fully turned to be a sure POWER in fully turned to be a sure POWER of the sure POWER in fully turned to be a sure POWER of the sure POWER in fully turned to be a sure POWER of the sure POWER in fully turned to be a sure POWER of the sure POWER in fully turned to be a sure POWER of the sure POWER of
  - Be sure POWER is fully turned to M-CARD position.
  - "PLAY: PÚSH PLAY KEY" is displayed for 10 seconds. (See page 33.)
- **Press MENU** to display CARD SETTING menu, then **press JOG KEY** to select **NORMAN** or **FINE**.



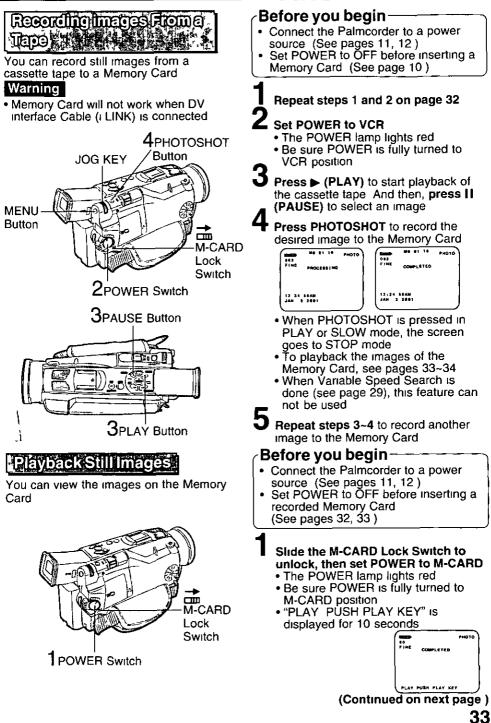
- Press MENU to exit this menu.
- Press PHOTOSHOT to record an image.



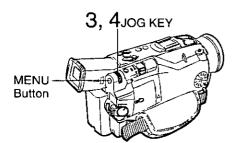
- The PhotoShot image is recorded to the Memory Card.
- When SHÚTTER is set to ON (see page 15), still pictures are recorded with a visual shutter effect and click sound. If set to OFF, the still image will be displayed only.
- While Memory Card data is being read, do not remove it, turn off the power, or subject unit to vibrations and shocks.
- Do not leave the Memory Card in a place with high temperature, exposed to direct sunlight, or where electromagnetic waves and static electricity can be generated.
- Electromagnetic waves, static electricity, malfunction of the Digital Video Palmcorder or of the Memory Card itself could erase the data recorded on it. To prevent the loss of picture data, we recommend that you make a backup copy on the computer.
- Do not bend or drop the Memory Card as this could damage it or the captured contents.
- Do not touch the connector on the rear edge of the Memory Card with your fingers and take care that no dirt, dust or water enters it.
- Do not affix other labels to the Memory Card face or back as Card insertion/removal may become impossible.

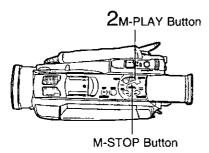
For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com

# Card Features



# **Gard Features**







- DISPLAY Select OFF to remove all displays from the screen
- DCF (Design rule for Camera File system)

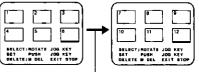
Select OFF to cancel DCF No on the screen

#### Note

- If the file number is changed, the Palmcorder cannot read the file data
- This product is compliant with DCF (Design rule for Camera File System) Images saved on the Memory Card using other Digital Still Cameras that are compliant with DCF can be viewed on this product

2 Press ► (M-PLAY) to display the Multi playback screen

- "PLEASE WAIT" appears on-screen
   Rotate JOG KEY to scroll through
- Rotate JOG KEY to scroll through Multi image screen pages (6 images per page) and select an image
- The selected image is underlined in green



#### "PLEASE WAIT" is displayed

- Press MENU to display CARD SETTING menu screen
- Press (M-STOP) to return to the Card PhotoShot REC Mode (See page 32)

**Bress JOG KEY** to display the selected image as a full-size screen • "PLEASE WAIT" appears on-screen

Rotate JOG KEY to select BACK (previous image), MULTI (Multi Image screen), or NEXT (next image)

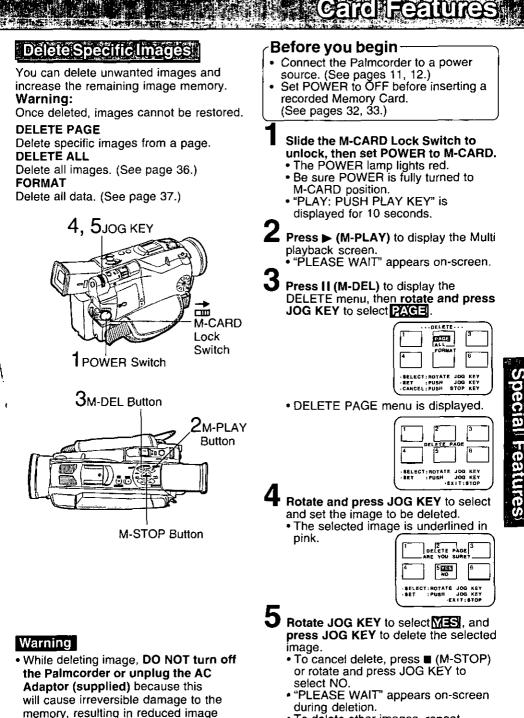


 Press ■ (M-STOP) to return to the Multi Playback screen

#### Warning

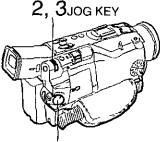
 While "PLEASE WAIT" is displayed, DO NOT turn off the Palmcorder or unplug the AC Adaptor (supplied) because this will cause irreversible damage to the memory

For assistance, please call: 1-800-211-PANA(7262) or send e-mail to: consumerproducts@panasonic.com

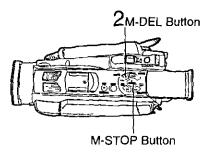


storage capacity.

### Before you begin Delete All Image You can delete all images from the Memory Card easily with this operation Warning Once deleted, images cannot be restored



POWER Switch



- Connect the Palmcorder to a power source (See pages 11, 12)
- Set POWER to OFF before inserting a recorded Memory Card (See pages 32, 33)

Do steps 1 and 2 on page 35

2 Press II (M-DEL) to display the DELETE menu Then, rotate and press JOG KEY to select



- The screen below is displayed
- To cancel delete, press I (M-STOP) or rotate and press JOG KEY to select NO

DELETE ALL ARE YOU SURE?
BELECT ROTATE JOG KEY BET PUSH JOG KEY Exit Stop

- B Rotate and press JOG KEY to select MES
  - "PLEASE WAIT" is displayed on the screen, and then "NO PICTURE" is displayed



Card PhotoShot REC Mode screen (See page 32)

### Warning

 While deleting image, DO NOT turn off the Digital Video Camcorder or unplug the AC Adaptor (supplied) because this will cause irreversible damage to the memory, resulting in reduced image storage capacity

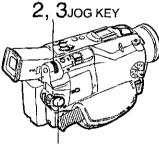
> For assistance, please call: 1-800-211-PANA(7262) or sende-mail to : consumerproducts@panasonic.com

## Format the Memory Card

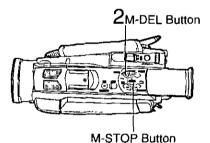
You can easily format your Memory Card using this operation

#### Warning

Formatting permanently removes all image data



POWER Switch



### Before you begin

- Connect the Palmcorder to a power source (See pages 11, 12) • Set POWER to OFF before inserting a
- recorded Memory Card (See pages 32, 33)

### Do steps 1 and 2 on page 35

Press II (M-DEL) to display the DELETE menu, then rotate and press JOG KEY to select FORMAU



- The screen below is displayed
- or rotate and press JOG KEY to select NO



- **3** Rotate and press JOG KEY to select YES
  - "PLEASE WAIT" is displayed on the screen as all image data is deleted from Memory Card Deletion is complete when "NO PICTURE" is

displayed



• Press 
(M-STOP) to return to the Card PhotoShot REC Mode screen (See page 32)

#### Warning

 While deleting image, DO NOT turn off the Palmcorder or unplug the AC Adaptor (supplied) because this will cause irreversible damage to the memory, resulting in reduced image storage capacity

## **Card Features**

### Photo Title

You can record PhotoShot images from a Memory Card to a cassette to be used as a WIPE or MIX effect

• A great many fun-filed titles (preset titles) have been recorded on the supplied Memory Card (See page 67) These preset titles will also be erased when the Card is formatted

#### Note

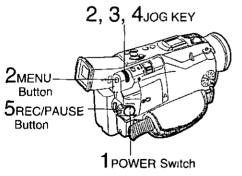
When Photo Title is set to ON, the selected image and Title will appear before each recording is made

WIPE The Photo title is replaced with the current scene in a wiping motion



MIX The photo title is replaced with the current scene in a gradual mixing effect





### Before you begin

- Connect the Palmcorder to a power source (See pages 11, 12)
- Set POWER to OFF before inserting a recorded Memory Card (See pages 32, 33)

### 4

#### Set POWER to CAMERA

- The POWER lamp lights red
- Be sure POWER is fully turned to CAMERA position

Press MENU to display the CAMERA menu screen Then rotate and press JOG KEY to select [FLOVO WUL]



- Rotate and press JOG KEY to select and set MODE and then MULE
- 1st Select and set MODE (WIPE or MIX)
- 2nd Select and set TITLE to "SET"



- "PLEASE WAIT" appears on-screen
- The Multi image screen is displayed

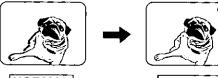


- Rotate and press JOG KEY to select and set an image
  - "PLEASE WAIT" is displayed while image is processed. Then, "PHOTO TITLE SET" is displayed for approx 3 seconds, and the screen goes back to the Camera mode screen.
  - After Photo Title is performed, Digital Function turns off
- There are 12 pre-installed files
- Press REC/PAUSE to start recording with Photo Title
  - WIPE or MIX screen is displayed at beginning of the recording Then the Photo Title setting will be cleared automatically

For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com

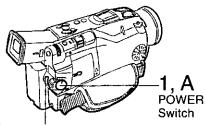
### 'Dual Digital Electronic Image Stabilization System (D.E.I.S.)

This feature helps compensate for any unintentional hand or body movement. It can be used in both the Recording and Playback (VCR) modes.

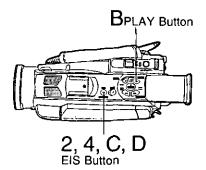




EIS ON



**GREC/PAUSE Button** 



### Note

 Other Digital Functions are turned off automatically when the EIS and Digital Zoom are selected.

### CAMERA mode

### Set POWER to CAMERA.

- The POWER lamp lights red.
- Be sure POWER is fully turned to CAMERA position.
- **2** Press EIS to stabilize the picture.
  - Picture flicker may be observed when taping under fluorescent lighting conditions.
  - The EIS indicator flashes when the light level is inadequate.
  - Turn D.E.I.S. OFF during recording when using a tripod.

**Press REC/PAUSE** to start recording.

- Press EIS again to cancel.
  - Be sure that D.E.I.S. is turned off when not needed.

### D.E.I.S. may not function when...

- Palmcorder movement is too extreme.
- Recording a subject with distinct horizontal or vertical stripes.
- Recording in low light situations.
- Recording a subject under a great amount of fluorescent light.
- Recording a scene with very fast motions.

### VCR mode

### Set POWER to VCR.

- The POWER lamp lights red.
- Be sure POWER is fully turned to VCR position.

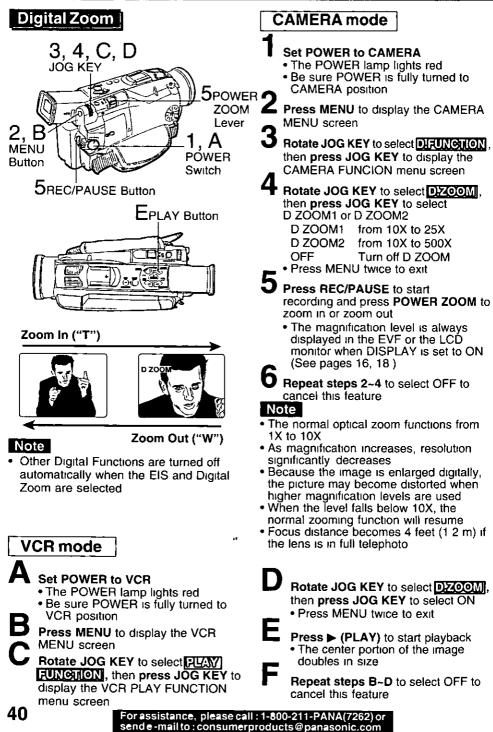
B Press ► (PLAY) to start playback.

**Press EIS** to stabilize the picture.

- Press EIS again to cancel.
  - Be sure that D.E.I.S. is turned off when not needed.

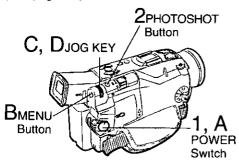
### Note

• When using D.E.I.S in VCR mode, the image size is slightly larger.



### **Digital PhotoShot**

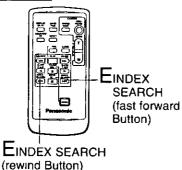
Use this feature to record a seven second (approx) still image from the current camera picture Audio is also recorded for on-thespot narration Or, you can add narration later with the Audio Dubbing feature to make an interesting slide show, etc (See page 50)



## Index Search (Photo/Scene)

(Remote Control Only)

PV-DV701 Supplied PV-DV351 Optional



### Note

- . The picture quality will deteriorate slightly
- The tape remaining indicator will not appear while the PHOTOSHOT feature is used
- In the Photo/Scene Index Search mode, the shutter sound effect may not be able to be heard even when SHUTTER is set to ON
- Photo Index Search may fail to detect a recorded PhotoShot image if the image is 3 seconds or less

### Set POWER to CAMERA

- The POWER lamp lights red
- Be sure POWER is fully turned to CAMERA position
- Press PHOTOSHOT in Record/Pause mode "PHOTO" will appear in the

EVF or the LCD monitor



- If SHUTTER on the menu screen is set to ON, a sound effect similar to the shutter of a film camera will be heard when PHOTOSHOT is pressed
- When PHOTOSHOT is pressed, the playback image takes approx 7 seconds to process After that, the Camera mode screen will be displayed
  - Set POWER to VCR
    - The POWER lamp lights red
    - Be sure POWER is fully turned to VCR position

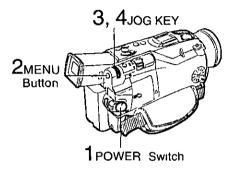
Press MENU to display the VCR mode menu screen

- Rotate JOG KEY to select ANA MODE, and press JOG KEY to display the VCR PLAY MODE menu screen
- Rotate JOG KEY to select [NDEX], and press JOG KEY to select PHOTO or SCENE
  - Press MENU twice to exit

Press INDEX SEARCH fast forward or rewind on the remote control to advance or rewind the tape to playback a PhotoShot scene To view the next PhotoShot, INDEX SEARCH must be pressed again

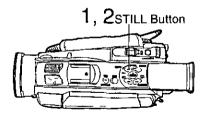
### White Balance

Auto White Balance automatically maintains optimum color balance in most lighting conditions However, when using Digital Functions, etc., you may get better results using the manual adjustment



### **Recording Still Pictures**

You can record still pictures of any desired duration together with sound

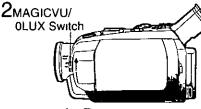


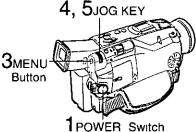
### Set POWER to CAMERA

- The POWER lamp lights red
- Be sure POWER is fully turned to CAMERA position
- 2 Press MENU to display the menu screen
  - Rotate JOG KEY to select ADJUST, and then press JOG KEY to display the CAMERA ADJUST menu screen
- **4** Rotate JOG KEY to select WIEXTLANCE, and then press JOG KEY repeatedly to select AUTO, Indoor halogen lamp " β<sub>5</sub>", or Outdoors "<sub>26</sub>"
- -乃, When the source illumination is a halogen lamp
- AUTO Automatically maintains optimum color balance in most lighting conditions
  - While in RECORD mode, press STILL and hold for 2 seconds to capture a still picture The captured still picture will be recorded together with sound
- **2** Press STILL once again to release the still picture The camera will resume recording real-time pictures

## MagicVu™ IR Filter (0 Lux)

MagicVu allows you to record video in total darkness You can select the color of image B/W, green, or blue (See page 16)



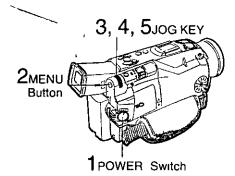


### MagicPix<sup>™</sup>Images

Color recording of video or still images onto the Mini DV tape in low lighting (See pages 15, 45)

### Note

 MagicPix cannot be used with still images on the Memory Card (See "Card PhotoShot" on page 32)



### Set POWER to CAMERA

- The POWER lamp lights red
- Be sure POWER is fully turned to CAMERA position

### Z Slide MAGICVU/0LUX to ON

A black and white image appears

Press MENU to display the menu screen

Rotate JOG KEY to select SETUP, and then press JOG KEY to display the CAMERA SET-UP menu screen

5 Rotate JOG KEY to select MAGICAU, and then press JOG KEY repeatedly to select B/W, BLUE, or GREEN

- Press MENU twice to exit
- To cancel this feature, slide MAGICVU/0LUX to OFF

#### Note

 The subject can be up to 3 m (9 feet) away

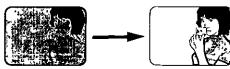
### Set POWER to CAMERA

- The POWER lamp lights red
- Be sure POWER is fully turned to CAMERA position

2 Press MENU to display the menu screen

Rotate JOG KEY to select DIFUNCTION, and then press JOG KEY to display the CAMERA FUNCTION menu screen

**A** Rotate JOG KEY to select
 **DEFINICATION**, and then press JOG
 **KEY repeatedly** to select MAGICPIX
 • Press MENU twice to exit



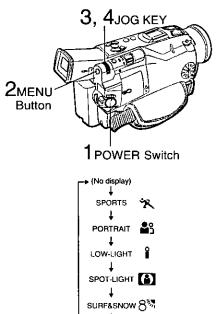
**D** To cancel the Digital Function, press JOG KEY repeatedly to select OFF

### Program AE

The Auto Exposure feature can be used to make quality recordings in a variety of scene situations.

#### Note

• When MagicVu is ON, Program AE and H.S.S. cannot be set in the menu.



#### Note

#### SPORTS mode

- The recorded images will not be so blurred when they are viewed later using slow or still picture playback.
- When playing back a sports mode recording, the movement may appear slightly jerky.
- Do not use this mode when recording under fluorescent, mercury, or sodium lighting. These types of lights will affect the color and brightness of the images.
- A vertical band of light might appear when recording objects that are brightly illuminated or which are highly reflective.
- If the amount of light is insufficient, the SPORTS "文" indicator will flash in the EVF or the LCD monitor.
- The image may flicker if this mode is used indoors.

### Set POWER to CAMERA.

- The POWER lamp lights red.
- Be sure POWER is fully turned to CAMERA position.
- Press MENU to display the menu screen.
- Rotate JOG KEY to select ADJUST , and then press JOG KEY to display the CAMERA ADJUST menu screen.
- Rotate JOG KEY to select PROCIAE, then press JOG KEY repeatedly to select one of the five modes shown below.
- **Repeat steps 2~4** to select OFF to cancel this feature.

Mode	Indication
ズ	For recording fast action scenes.
<b>B</b> 3	For recording only subjects in the foreground, while ignoring subjects in the background.
Î	For recording in extreme low light conditions.
Θ	Recording in situations where subjects are under a spotlight(s).
83	For recording in locations with a high degree of "Dazzle," such as snow slopes and the seashore.

#### PORTRAIT mode

The image may flicker if this mode is used indoors.

#### LOW-LIGHT mode

• Scenes recorded in extremely low light levels may not come out properly.

#### SPOT-LIGHT mode

 If the recorded subject is extremely bright, the picture may appear whitish.

#### SURF&SNOW mode

- If the recorded subject is extremely bright, the picture may appear whitish.
- It is not possible to select the SPORTS mode or PORTRAIT mode together with the MagicPix mode in the Digital function camera menu.

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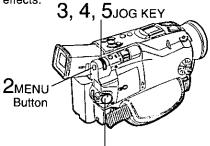
#### For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com

### 45

## Special Features

### Other Digital Functions

Use the following features to add interest and professionalism to your recordings or playback. Select from twelve special effects.



1 POWER Switch

### **Types of Digital Functions**

#### MIRROR

Symmetrical image from the current camera picture.

#### STROBE

The recording appears as a sequence of still frames.

#### MOSAIC

The picture appears in a mosaic pattern. SLIM

The picture is expanded vertically.

#### TRAIL

The subject being recorded creates a trail when in motion.

#### STRETCH

The picture is expanded horizontally. **MAGICPIX** (Not available during playback) Color recording of video or still images onto the Mini DV in low lighting. (See page 43.)

Only Manual Focus is available.

#### WIPÉ

Successive scenes are separated in a way which simulates the drawing of a curtain.

#### MIX

The current scene is mixed in with the following scene during scene changes. **PinP** 

PinP (Still image) is displayed on the Main Picture.

**SEPIA** (Only available during playback) The picture is played back in sepia, a brownish color, giving it an articulation

brownish color, giving it an antique look. **MONO (Monotone)** (Only available during playback)

The picture is played back in black-andwhite.

#### Set POWER to CAMERA or VCR. • The POWER lamp lights and

- The POWER lamp lights red.
- Be sure POWER is fully turned to CAMERA or VCR position.

**Press MENU** to display the menu screen.

- Rotate JOG KEY to select
   DIFUNCTION in the CAMERA mode menu screen or PLAY FUNCTION in the VCR mode menu screen, then press JOG KEY to display the CAMERA FUNCTION or VCR PLAY
   FUNCTION menu screen.
- Rotate JOG KEY to select
   DIFUNCTION, and then press JOG
   KEY repeatedly to select one of the
   Digital Functions listed on the left.
- To cancel the Digital Function, press JOG KEY repeatedly to select OFF.

#### Note

 The EIS and Digital Zoom features are turned off automatically when one of the Digital Functions listed at left is selected.

### To use the WIPE function

- a. In Camera mode, set the "D.FUNCTION" item in the main menu screen to "WIPE". (See page 15.)
- b.Press REC/PAUSE to start recording.
- c. Press REC/PAUSE to pause the recording. The last scene will be
- memorized. d.Press RECORD/PAUSE to start
- recording again. The new scene will take the place of the memorized scene.

### To use the MIX function

a. In Camera mode, set the "D.FUNCTION" item in the main menu screen to "MIX" (see page 15). Then, perform steps b-d above.

The memorized scene and the new scene will appear mixed as the scene changes from one to the other.

#### Note

 When Photo Title is set, WIPE/MIX mode becomes Photo Title. When Photo Title is finished, Digital Function turns OFF.

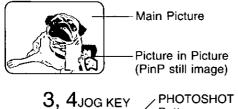


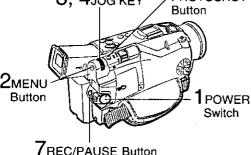
## Picture in Picture (PinP)

You can display a PinP (still image) screen on the Main Picture.

#### Note

 PinP position is fixed at the bottom right of the screen.





### Before you begin

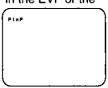
• Connect the Palmcorder to a power source. (See pages 11, 12.)

### Set POWER to CAMERA.

- The POWER lamp lights red.
- Be sure POWER is fully turned to CAMERA position.
- Press MENU to display the menu screen.
- Rotate JOG KEY repeatedly to select DIFUNCTION, then press JOG KEY to display the CAMERA FUNCTION menu screen.

### Press JOG KEY to select [PIDP].

- Press MENU twice to exit this menu.
- "PinP" will appear in the EVF or the LCD monitor.



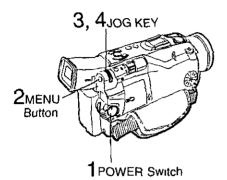
- 5, 6, 7 CAMERA STILL Button
- 5 Aim at the scene you wish to place as PinP, then press II (CAMERA STILL) to freeze the image.
- 6 Press II (CAMERA STILL) again to place the frozen image as PinP.

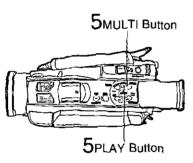


- 7
- Press REC/PAUSE to record a scene with PinP image.
  - Press PHOTOSHOT to record a scene with PinP image in PhotoShot mode.
  - Press II (CAMERA STILL) again to remove PinP image.

### Strobe Multi Mode

In Strobe Multi Mode, you can select the rate at which a succession of still screens are captured from the playback picture





#### Note

- A Multi Image Playback screen cannot be output from the DV terminal or Digital Still Image terminal
- A Multi screen will have slightly lower image quality

### Before you begin

Connect the Palmcorder to a power source (See pages 11, 12)

### Set POWER to VCR

- The POWER lamp lights red
- Be sure POWER is fully turned to VCR position
- 2 Press MENU to display the menu screen
- 3 Rotate and press JOG KEY to select and set MULUISEMANC
- Press JOG KEY repeatedly to set desired speed

#### **Strobe Speeds**

Strobe Speeds	9 screen capture time
FAST	Every 0 3 seconds
NORM	Every 0 6 seconds
SLOW	Every 1 0 seconds

- Press MENU twice to exit
- Press ► (PLAY) to start playback Press ► (MULTI) at the point you want to start capturing
  - A succession of 9 screens will be captured, and playback will stop

	0-	+ 2 -	-3
-	÷@-	- 6	• 6
_	- () -	- (8)-	- (9)

Press 
 (PLAY) to start playback
 Press 
 (STOP) to stop playback



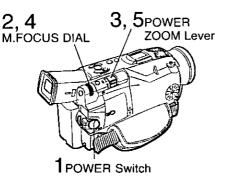
### AutoFocus

The Palmcorder automatically adjusts the focus over the entire zoom range.

### Manual Focus

Use Manual Focus (MF) when recording ...

- a subject through glass.
- a scene where the subject is far from the Palmcorder and there are objects in the foreground.
- a subject with distinct horizontal stripes.
- a subject not centered in the Viewfinder.
- subjects with shiny surfaces.
- 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.
   Re-focusing may be required
- when your Palmcorder is aimed at a new scene.



### +Macro Focus (for close-ups)---

#### Set POWER to CAMERA.

- The POWER lamp lights red.
- Be sure POWER is fully turned to CAMERA position.
- Press M.FOCUS DIAL so that "MF" (Manual Focus) appears in the EVF or the LCD monitor.
- Press and hold POWER ZOOM "T" side (Telephoto) until the lens is at maximum zoom in.
- 4
  - Turn M.FOCUS DIAL until the picture is in focus.
    - It may be necessary to back away from the subject to focus the image properly.
  - property.
  - Press POWER ZOOM to "W" or "T" as desired.
    - The subject will remain in focus over the entire zooming range.
    - It may be necessary to back away from the subject to focus the image properly.

#### Note

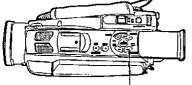
 DISPLAY must be set to on for MF, AE, W.BALANCE, or BACK LIGHT to be displayed on the LCD or EVF.

Press the "W" side of POWER ZOOM to the maximum wide angle position. Auto Focus will function with the subject as close as 1 inch (25 mm) in front of the lens.

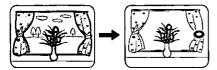
### Backlight

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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.



#### BACK LIGHT Button



EVF or LCD monitor indication.

Press BACK LIGHT in Record mode to activate the Backlight feature.

The Indicator "O" will appear in the EVF or LCD monitor.

Press BACK LIGHT again to cancel the Backlight feature.

#### Note

• The Indicator "O" will not appear in the EVF or LCD monitor when OFF is selected in the DISPLAY menu.

For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com

## High Speed Shutter

To record high speed motion (e.g. tennis stroke) for improved STILL or SLOW MOTION playback when watching the tape on this Palmcorder

### ennis • Connect the Palmcorder to a power

source (See pages 11, 12) • Set POWER Switch to CAMERA

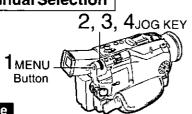
Before you begin

 Insert a cassette with record tab (See page 6)

### **Auto Shutter**

In the AUTO mode (no indication in the EVF and LCD monitor), the Palmcorder will automatically adjust the shutter speed (up to 1/350)

• AUTO mode is automatically selected whenever the POWER Switch is set to CAMERA

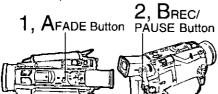


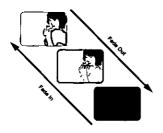
#### Note

- 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.
- 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
- When PROG AE is ON, you cannot manually select the shutter speed
- When MAGICVU is ON, Program AE and H S S cannot be set in the menu

### Audio/Video Fade In/Out

You can make smoother scene transitions for a more professional look





Press MENU to display the Camera mode menu in the EVF or the LCD monitor

- Rotate and press JOG KEY to select ADJUST, then rotate and press JOG KEY to select HISIST
- Press JOG KEY to select Series
   SHUTTER SPEED menu is displayed



Rotate JOG KEY to choose one of the following shutter speeds

1/100 ←→ 1/60 ←→AUTO ←→1/8000 ←→ 1/4000

- ↓ 1/250 ←→ 1/500 ←→ 1/1000 ←→ 1/2000 ←
- Press MENU three times to exit

#### Fade In

Starting the first scene with "fade in" is very effective

In REC/PAUSE mode, hold down FADE until the picture fades out

- Press REC/PAUSE to start recording
- Release FADE and the picture will gradually fade in

#### Fade Out

Use to create a soft ending or (together with fade in) for a soft transition from one scene to the next



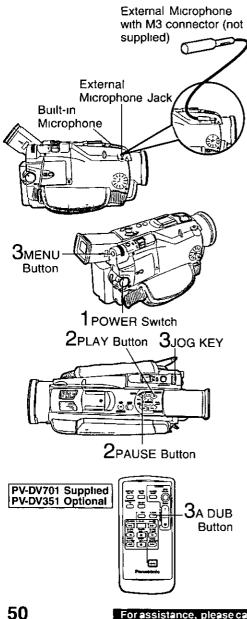
During recording, hold down FADE until the picture fades out

Press REC/PAUSE to pause the recording



### Audio Dubbing using the External or Built-in Microphone

The original sound can be replaced with new sound using the built-in Palmcorder microphone or an external microphone



### Before you begin

- Connect the external Microphone (if used)
- Turn on the Palmcorder
- · Insert a pre-recorded tape to be dubbed

The AUDIO-REC setting in CAMERA MENU mode should be as follows

12 bit	The original sound is recorded on ST (Stereo) 1, and the new sound will be recorded on ST (Stereo) 2
16 bit	The original sound is replaced with the new sound

- Select 12 bit if you do not want the original sound to be completely replaced during an audio dub
- If you dub over a tape which has both 12 bit and 16 bit audio recordings on it, keep in mind that the original 16 bit audio portion will be completely replaced

### Set POWER to VCR

- The POWER lamp lights red
- Be sure POWER is fully turned to VCR position
- With the Remote Control, you can set the Palmcorder to stop automatically at a specified point on the tape See "Memory-Stop Editing" on page 51

### Z Press ► (PLAY) Then press

II (PAUSE) where you want dubbing to begin

When using the Palmcorder only

Press MENU to display the VCR mode menu screen

Rotate JOG KEY to select **TECIMODE**, then press JOG KEY to display the VCR REC MODE menu screen

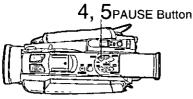
Rotate JOG KEY to select (VIDIO) DUE, and then press JOG KEY to select ON

• The Palmcorder will go to Stand By mode, and "A DUB" flashes in the EVF or the LCD monitor Go to step 4

When using the Remote Control only

 Press A DUB on the Remote Control
 The Palmcorder will go to Stand By mode, and "A DUB" flashes in the EVF or the LCD monitor Go to step 4

For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com



To listen to the desired audio sound, set the AUDIO setting of the VCR mode MENU (see page 17) as follows

AUDIO The following selections are available for 12 bit AUDIO dubbed recordings only (sound recorded in SP mode only)

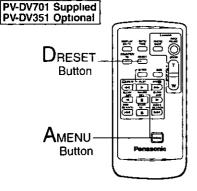
ST 1	Set this position to listen to the original sound
ST 2	Set this position to listen to the audio dubbed sound
міх	Set this position to listen to both the original sound and the audio dubbed sound

#### Note

- 16 bit dubbed sound completely erases the original 16 bit recorded sound
- If you dubbed using 12 bit AUDIO recording and then selected AUDIO-MIX in the menu for playback, the sound will be stereo regardless of the AUDIO-OUT setting
- If you recorded in LP mode, you cannot use the A DUB feature

Memory-Stop Editing (Remote Control Only)

You can set an automatic Dubbing stop point



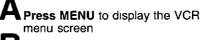
- 4 Press II (PAUSE) to start Audio Dubbing
  - Connect the Palmcorder to the TV in order to monitor the sound (See page 31)



Only NTSC (National Television Standards Committee) recorded tapes can be audio dubbed The following screen appears if the tape was not recorded in NTSC format

5 Press II (PAUSE) to stop Audio Dubbing

- If the microphone used for dubbing gets too near the speaker of your TV, a howling noise (feedback) may occur
- If the tape position is in or was started in a blank section, you cannot use the A DUB feature



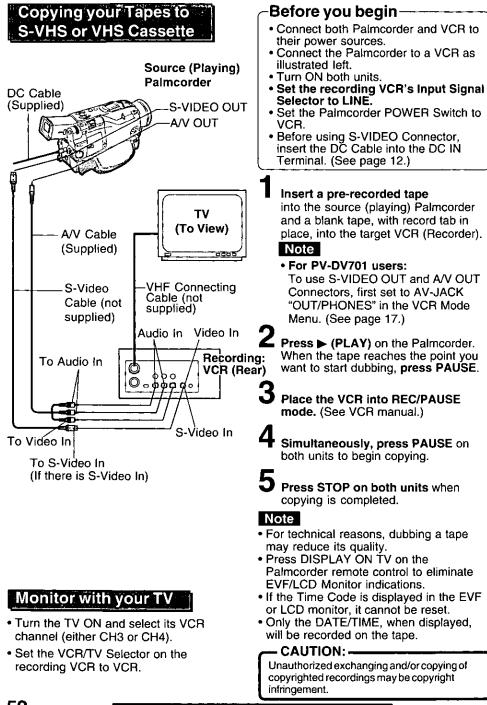
Rotate JOG KEY to select DISPLAY SEMUNC, and then press JOG KEY to display the DISPLAY SETTING menu

Rotate JOG KEY to select DISELAN, and then press JOG KEY to set to MEMORY

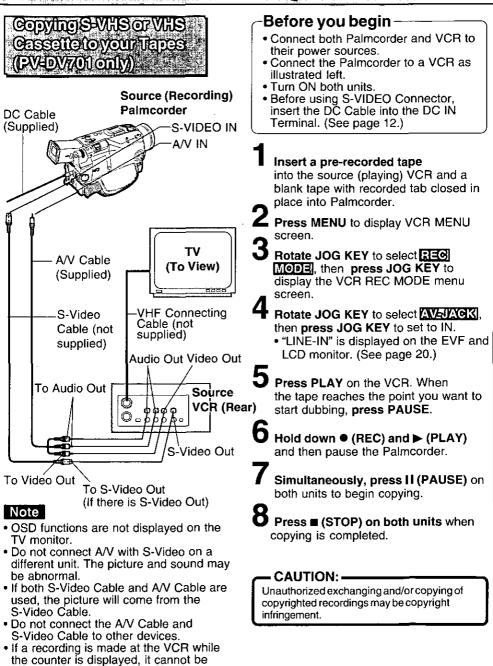
Press MENU two times to exit MENU mode Then, press RESET on the remote control to reset the Counter Memory to M 0 00 00

Now, rewind to the editing start point, and continue with steps 2-5 The tape will now stop automatically at "M 0 00 00"





## Speedal Features

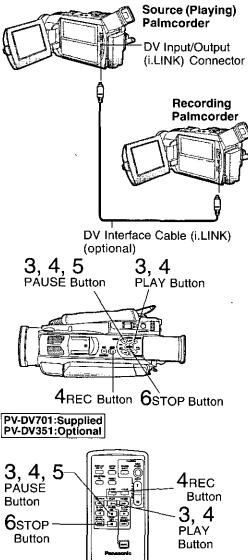


reset.
Depending on the input signal, the closed caption signal may not be able to be recorded normally.

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High quality digital-to-digital copying can be accomplished if both Palmcorders incorporate the DV Input/Output (i.LINK) Connector (DV interface cable (i.LINK) is not supplied).



### Before you begin

- Connect both Palmcorders to their power sources.
- Connect the two Palmcorders using the DV interface cable (i.LINK) (4-pin to 4-pin).
- Turn both Palmcorders ON.

Insert a pre-recorded tape into the source (playing) Palmcorder, and set POWER to VCR.

Insert a blank tape with the record tab closed into the target (recording) Palmcorder and set POWER to VCR. Note

For PV-DV701 users: To use the Recording Palmcorder, first set to AV-JACK "OUT/PHONES" in the VCR Mode Menu. (See page 17.)

Press ► (PLAY) on the source Palmcorder. When the tape reaches the point you want to start dubbing, press II (PAUSE).

Hold down REC and press ► (PLAY) on the target (recording) Palmcorder or on the remote control. Press II (PAUSE) to pause the targe at

Press II (PAUSE) to pause the tape at the starting point of the dub.

5 Simultaneously, press II (PAUSE) on both units to begin dubbing.

Press ■ (STOP) on the recording unit, and then press ■ (STOP) on the playing unit to end dubbing.

#### Note

- When two Palmcorders are used for dubbing, it is recommended that the remote control VCR1 or VCR2 setting be used to avoid improper-operation.
- When two Palmcorders are connected using the DV interface cable (i.LINK) (not supplied), a Video Editing Controller cannot be used.
- Do not connect both an S-Video Cable or A/V Cable and a DV Interface Cable (i.LINK).

-CAÚTION:-

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

For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com You can transfer images from your Palmcorder tape to your PC (Personal Computer)

#### System Requirements

- IBM PC/AT or compatible
- Intel Pentium II Processor 266 MHz or more
- RAM 64 MB or more
- CD-ROM drive (for installation)
- Mouse or other pointing device
- Windows 98/Me/2000 preinstalled PC with USB port (for CARDLINK (for USB), PHOTOVU LINK/Movie Messenger, or Palmcorder USB Device Driver)
- Windows 95/98/Me/2000 preinstalled PC with USB port (for ArcSoft Software)
- Palmcorder USB Device Driver

- 15 MB minimum available hard disk space (for CARDLINK (for USB), PHOTOVU LINK/Movie Messenger, or Palmcorder USB Device Driver)
- 220 MB minimum available hard disk space (for ArcSoft Software)
- Minimum 120 MB of free hard disk space for Motion picture transfer from DV tape to PC
- Video card that supports 16 bit color at 800 X 600 monitor resolution
- High color (16 bit) or more (for ArcSoft Software)

Software to connect your Palmcorder and your PC using USB Cable

PHOTOVU LINK/Movie Messenger

Software to transfer images from your Palmcorder to your PC

CARD LINK (for USB) ArcSoft Software\*

This software to transfer images between the Memory Card and your PC Following software is included PhotoPrinter 2000

Pro, PhotoImpression 2000, Panorama Maker 2000

* For inf	formation on ArcSoft Soft	ware	
TEL	1-510-440-9901	Web Site	v
FAY	1-510-440-1270	E-mail	

vww arcsoft com support@arcsoft.com

### Software Installation (Windows 98/Me/2000)

#### Caution

· Please install Palmcorder USB Device Driver first before connecting the Palmcorder and your PC using USB Cable. Once Palmcorder USB Device Driver is installed, you must restart your computer for installation to take effect

Turn on the PC (Personal Computer) and start up Windows 98/Me/2000

Insert the supplied Software CD-ROM into the CD-ROM drive

Select and click the icon you want to install Please install the USB Device Driver first and follow the instructions listed under "Caution"

a Series Minim	
Salah a sa ang ang ang ang ang ang ang ang ang an	
ang) tauk binanga Tau un kanta sambal penangan K Jau Piran na Mal selukt	
fotal UPD Life To Vice New on proposil patients para R	
har to fail advert	<u></u>
	Ē

Palmcorder USB Device Driver	
PHOTOVU LINK/Movie Messenger	Click
CARD LINK (for USB)	Click
ArcSoft Software	Click

Follow the instructions as they appear on your PC screen

#### Note

- If a window does not appear automatically, click the "Start" button on your desktop and then click "Run" When the Run box is open, type in "D \InstMenu exe" where "D " is the drive letter of your CD, then click "OK"
- If you attempt to install the next Software before the previous Software installation is completed, "Error" may appear. In this case, click [OK] and install the next Software from the menu

#### Notes on PHOTOVU LINK/Movie Messenger and CARD LINK (for USB) operation

- For PHOTOVU LINK/Movie Messenger, do not connect the i.LINK and USB terminals to the Palmcorder at the same time.
- Make sure Palmcorder power is not shut off during use, your PC system may become unstable, therefore it is recommended that the AC Adaptor be used as the power source. (Be especially careful when recording in M-CARD or CAMERA mode as the power eventually shuts off automatically if a tape is inserted.)
- For PHOTOVU LINK/Movie Messenger, if the play, stop, fast forward, and rewind functions are operated using the Palmcorder buttons, the image may not be captured properly. Use Palmcorder Operation Buttons displayed on the PC screen.

### Uninstalling Application Software

Transterring Your

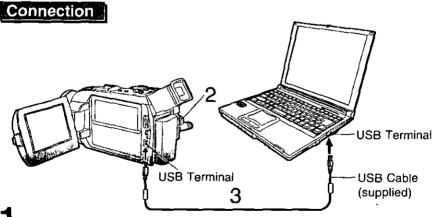
Click "Start," "Settings," and "Control Panel."
Double-click on "Add/Remove Programs" in the "Control Panel."
Click the control of the control panel.

Select the application software you want to remove, and then click [Add/Remove]. Note

 Before uninstalling CARD LINK (for USB), right-click on the CARD LINK (for USB) Monitor, then left-click on "Exit" to close CARD LINK (for USB) Monitor.



 If the "Locked File Detected" dialog box appears while uninstalling the CARD LINK (for USB), close CARD LINK (for USB) Monitor as described above, then click on [Retry].



Turn on your PC.

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2 Set the Palmcorder POWER to VCR.

Connect the Palmcorder to your PC (Windows) using the USB Cable (supplied).

• For extended use, it is recommended to use the AC Adaptor as a power source.

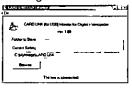
## NUOV GAIMERAISI

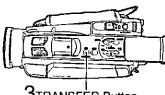
### **One Touch Transfer**

The images stored on the Memory Card can easily be transferred to the PC by pressing the TRANSFER Button

### Note

- Before using this feature, make sure the CARD LINK (for USB) monitor icon is displayed
- Doublé clicking the CARD LINK Monitor icon displays a dialog box in which the save location for the collective transfer can be changed

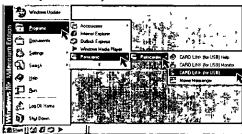




**3TRANSFER Button** 



You can transfer images between the Memory Card and your PC



### Before you begin-

- Set POWER to OFF before inserting a recorded Memory Card (See pages 32, 33)
- Turn your PC on

Set Palmcorder POWER to CAMERA or slide M-CARD Lock Switch to unlock and set to M-CARD (See pages 9, 10)

- Connect the Palmcorder to your PC (Windows) using the USB Cable (supplied) (See page 56) • "CONNECT WITH PC" is displayed
  - "CONNECT WITH PC" is displayed on the LCD monitor

### Press TRANSFER

 The CARD LINK (for USB) driver will automatically open and the images stored on the Memory Card will be transferred to your PC (If an image to be transferred already exists, that image will be skipped over and not transferred )

### Note

 JPEG image format (only image data that can be played back on Palmcorder) can be transferred from the Palmcorder to the PC

Repeat steps 1 and 2 above

Click on "Start," "Programs," "Panasonic," "Palmcorder," then "CARD LINK (for USB) "

"CARD LINK (for USB)" is opened

### Note

Refer to Help for information about application operations and Error messages

#### While CARD LINK (for USB) is running, do not perform the following operations...

The PC system may become unstable

- . Change the screen area or color pallet in the Display Properties window
- Turn the Palmcorder power switch ON or OFF while connecting the Palmcorder to your PC using the USB Cable
- Connect/disconnect the USB Cable
- Insert/remove a Memory Card

## Transferring Your Images

### Using Memory Card Image Data (CARD LINK (for USB))

Pictures captured with Palmcorder can be transferred to your PC

### Before you begin

- Set POWER to OFF before inserting a recorded Memory Card (See pages 32, 33)
- Make Palmcorder-PC connections (See page 56)
- Turn your PC on (See page 56)
- Set Palmcorder POWER to M-CARD (See page 10)
- Repeat steps 1 and 2 to run the CARD LINK (for USB) (See "Running the CARD LINK (for USB)" on page 57)
  - Select the image data you want to transfer to your PC
    - The selected image will be underlined in green
  - Clickon

#### Transfer

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• The picture image is transferred to your PC and displayed Transfer Dialog will appear on the PC The image is captured when the full screen image appears on the PC

#### Delete

 Confirmation Dialog will appear on the PC Click "OK" The selected images of the Memory Card are deleted

#### Save

- The picture image is transferred to your PC and displayed [Save as] dialog box will appear
- Click on "File," then Click on "Open "
  - At your PC, please select and open the data ( jpg or bmp) you want to transfer to the Palmcorder

#### Click on "File," select "Data out to camera," then select Fine or Normal mode

 Your computer image data is transferred to the Palmcorder

CARD LINK (for USB)	
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L Den	
Save As	······································
Data aut to camera 🔸	Eine mode
Etent Ni	Normal mode
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| <u>P</u>ark | <sub>Egy</sub>

For assistance, please call : 1-800-211-PANA(7262) or send e -mail to : consumerproducts@panasonic.com

### Note

CAND LINK (for USB) File Window Option Holo

Proview Window

Total 12

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 If, while transferring the image to your PC, the displayed picture appears abnormal, restart the PC application and turn Palmcorder POWER off, and then back on

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Delete

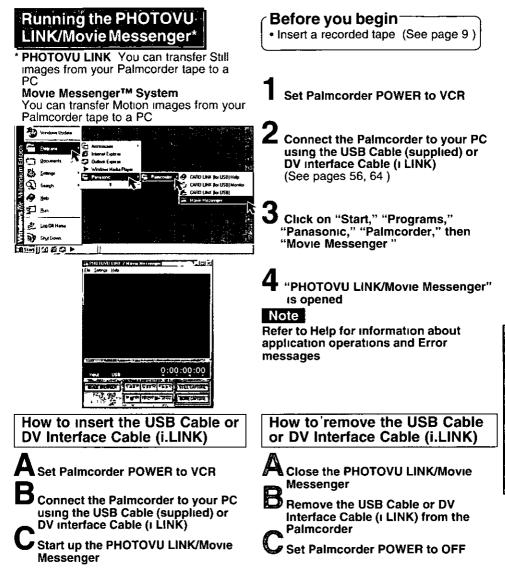
### Using PC Image Data (CARD LINK (for USB))

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You can use JPEG or Bitmap files from your computer for Photo Title (see page 38) by transferring them to the Palmcorder via PC connection



## Transferring Your Images



### While PHOTOVU LINK/Movie Messenger is running,

#### do not perform the following operations.

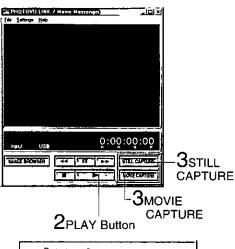
The PC system may become unstable

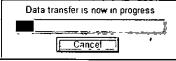
- . Change the screen area or color pallet in the Display Properties window
- Turn the Palmcorder power switch ON or OFF while connecting the Palmcorder to your PC using the USB Cable or DV Interface Cable (I LINK)
- Change the Palmcorder mode (VCR/CAMERA)
- \*Close the application before changing the Palmcorder power switch
- Connect/disconnect the DV Interface Cable (I LINK)
- Connect/disconnect the USB Cable

#### ansienting Your In F. To I :



By connecting the Palmcorder and PC with the USB Cable, you can transfer Motion images and Still images saved on the DV Tape directly to your PC





### To capture Still images

- Click on [STILL CAPTURE] at the point you wish to capture an image
  - Repeat step 3 to continue capturing images
  - Captured Still images are saved to the PC, and you can playback the saved images on the Image Browser (See page 61)

#### Before you begin

- Insert a recorded tape (See page 9)
- Make Palmcorder-PC connections (See page 56)
- Turn your PC on (See page 56)
- Set Palmcorder POWER to VCR

#### Repeat steps 1~4 on page 59 to run the PHOTOVU LINK/Movie Messenger

#### Note

 When the USB Cable is connected, the input display will automatically become USB If it is not USB, please confirm the connection Then, close and restart the software

#### Click (PLAY) on PC screen to playback the DV tape

- The playback screen cannot be viewed on the PC Please use the LCD monitor on the Palmcorder for confirmation
- To capture Motion images
- Click on [MOVIE CAPTURE] at the start point you wish to capture a Motion image
- Click [MOVIE CAPTURE] or [STOP] to end capture
  - "Now Searching" is displayed
  - The DV Tape is rewound to the point. at which the capture was started. The Motion image is then transferred to the PC
  - "Data transfer is now in progress" is displayed on the PC screen
  - The maximum capture time is approx. 30 seconds Capture stops automatically at the end of 30 seconds

#### Note

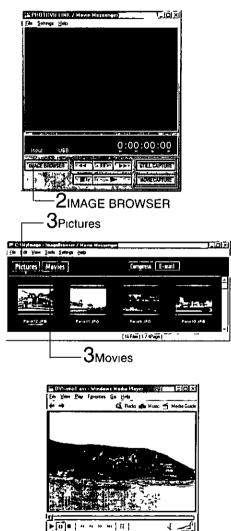
- Motion images cannot be captured if data contains the following
  - A change between 12 bit and 16 bit
- A change between SP and LP mode During transfer to the PC, the Motion
- images will not be displayed on the PC screen
- Transfer takes from about 30 to 50 seconds for every 1 second of the Motion image when using USB connection

To capture other Motion images, repeat steps 3~4

For assistance, please call: 1-800-211-PANA(7262) or send e-mail to: consumerproducts@panasonic.com

# Playing back the saved Motion and Still images (PHOTOVU LINK/Movie Messenger)

You can play back the saved Motion images and Still images (see page 60) for confirmation



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#### Repeat steps 1~4 on page 59 to run the PHOTOVU LINK/Movie Messenger

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## Click [IMAGE BROWSER] to display the Image Browser screen

To view Motion images

### 3

#### Click on [Movies]

• The first part of each Motion image will be displayed as a list

### 4

### Double click on the desired Motion

Image to display the playback screen

 Click 
 to start Motion image playback

### To view Still images

### 3

Click on [Pictures] to display the Still image list

Double Click on the desired image to open it

#### Note

• If the image cannot be opened, please refer to the software Help menu



### To select the e-mail Software PHOTOVU LINK/Movie Messengei

You can transfer and compress your Motion images and Still images as attachments to your e-mail easily

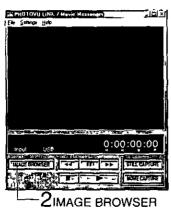
### Note

The e-mail Software must support MAPI (Messaging Application Programming Interface)

Below are some e-mail Software programs which support MAPI

Microsoft Outlook, Microsoft Outlook Express, Netscape Messenger

- Outlook(R) Express 5x, Outlook97. Outlook98, Outlook2000
- Outlook Express 4x
- Othere MAPI applications [Netscape(R)] Messenger 4 5x and so onl



E meil Settime Druck	A
Selects Mail Application	
Cultook(R) Express 5 x Outlook97/98 Hutlook	2000
C/ Oullook Express 4 x	I
G Other NAPI applications ( Netscape(F) Messon	ger 4 Sx and 40 pn j
Cr Non MAPI applications	· [
F Bhow message when data size is larger than	512 Kgg Cancel

### Before vou beain

- Insert a recorded tape (See page 9)
- Make Palmcorder-PC connections (See page 56)
- Turn your PC on (See page 56) Set Palmcorder POWER to VCR

Repeat steps 1~4 on page 59 to run the PHOTOVU LINK/Movie Messenger (See Note below)

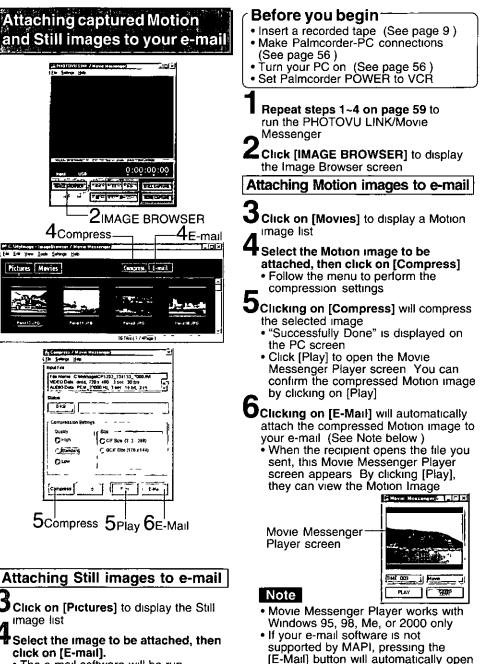
Click [IMAGE BROWSER] to display the Image Browser screen

### Select "E-mail Settings" from "Settinas"

#### Select the e-mail software you are using, then click [OK] Note

If the e-mail software does not support MAPI, clicking on [E-mail] of Movie Messenger will not automatically run the e-mail software Please run the e-mail software before doing step 1 above

## Iransferring Your Images



• The e-mail software will be run automatically and the selected image will be attached to the e-mail (See Note at right)

63

the folder containing the compressed

file To attach, drag and drop the file

into your e-mail



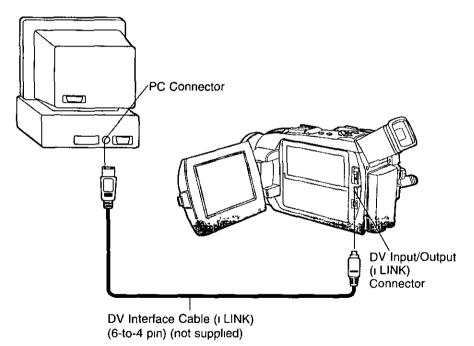
### PC Connection with DV Interface Cable (i.LINK)

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A live image can be transferred directly to your PC (Personal Computer) via a DV Interface Cable (I LINK) (not supplied) using products and software from a number of editing software companies including Canopus and Pinnacle

Using Products from these companies allows you to capture and edit live images onto your PC using the DV interface (i LINK)

For more detailed information regarding editing software products from these companies, please visit their websites at www.justedit.com www.pinnaclesys.com



#### Note

- · PC must be equipped with an I LINK terminal
- During Palmcorder playback, do not disconnect the DV Interface Cable (i LINK) or turn the Palmcorder off as this may cause PC hang-up error to occur
- For PHOTOVU LINK/Movie Messenger, do not use 2 i LINK terminals on your PC at the same time
- PHOTOVU LINK/Movie Messenger i LINK (DV) operates normally with Windows 98SE or later operating system
- PHOTOVU LINK/Movie Messenger | LINK connection may not work with some DV Interface boards. In this case, use the software included with the board
- 1394 (I LINK) Interface must conform to OHCI (Open Host Controller Interface Specification)
   64
   Eorassistance plass call 1-100 211-BANA(7252) or

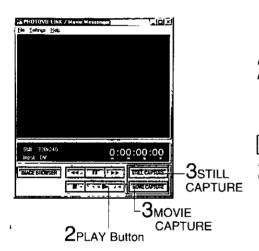
For assistance, please call: 1-800-211-PANA(7262) or send e-mail to: consumerproducts@panasonic.com

### Using Tape Image Data (PHOTOVU LINK/Movie Messenger)

By connecting the Palmcorder and PC with the DV Interface Cable (I LINK), you can transfer Motion images and still images saved on the DV Tape directly to your PC

#### Note

 If PHOTOVU LINK/Movie Messenger does not work, please refer to note on page 64



### Before vou beain

- Insert a recorded Tape (See page 9)
- Make Palmcorder-PC connections (See page 64)
- Turn your PC on
- Set Palmcorder POWER to VCR
- Run the Software after the DV Interface Cable (I LINK) has been connected to the Palmcorder

Repeat steps 1~4 on page 59 to run the PHOTOVU LINK/Movie Messenger

#### Note

- When the DV Interface Cable (I LINK) is connected, the input display will automatically become DV If it is not DV, please confirm the connection Then, close and restart the software
- Click > (PLAY) button on PC screen
  - to playback the DV tape
  - Please use the LCD monitor on the Palmcorder or PC screen for confirmation

To capture Motion images

- Click on [MOVIE CAPTURE] at the point you wish to capture a Motion image Click on [STOP] to end capture
  - The image is transferred to the PC in real time
  - The maximum capture time is approx 3 minutes
  - When capturing data containing changes between 12 bit and 16 bit and/or between SP and LP mode, a separate file will be made for each mode
  - Please refer to pages 61~63 for other functions

To capture Still images

Click on [STILL CAPTURE] at the point you wish to capture an image

- Repeat step 3 to continue capturing images
- Captured Still images are saved to the PC, and you can playback the saved images on the Image Browser



## Palmcorder Accessory System

Accessory #	Figure	Description	Price
PV-DAC11A		AC Adaptor with AC Cable and DC Cable	\$120 00
CGR-D08A/1B (Replaces CGR- D120A/1B)	0	800mAH / 1 h 30 min, Battery Pack	\$69 95
CGR-D16A/1B (Replaces CGR- D220A/1B)		1600mAH / 3 h, Battery Pack	\$99 95
CGP-D28A/1B		2800mAH/ 5 h, Battery Pack	\$129 95
CGR-D53A/1K (Replaces CGR- D815A/1B)		5300mAH / 9 h, Battery Pack	\$229 95
PV-DDC9	<del>J</del>	DV Interface Cable (I LINK) (4-pin to 4-pin)	\$55 00
PV-DLT9	9.8	Color Enhancement Light	\$39 95
PV-DRC9		IR Remote Control	\$29 95
PV-H150		Carrying Case	\$49 95
RP-SD064BRPA RP-SD032BRPA RP-SD016BRPA		64 MB SD Memory Card 32 MB SD Memory Card 16 MB SD Memory Card	\$109 95 \$69 95 \$49 95
BN-SDCAPU/1B		SD USB Reader/Writer (compatible with MultiMediaCard)	\$79 95
BN-SDABPU/1B		SD PCMCIA Adaptor (compatible with MultiMediaCard)	\$79 95

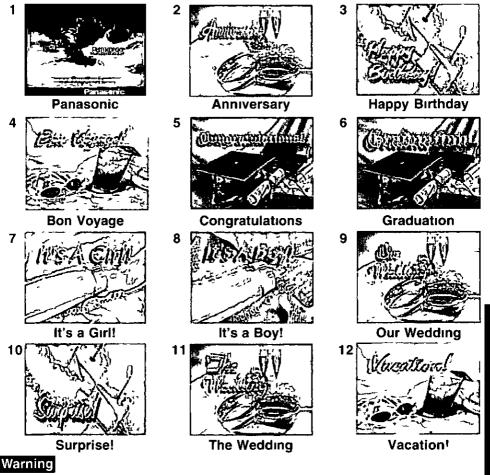
## Palmcorder Accessory System

### Concerning the Memory Card (MultiMediaCard and SD Memory Card)

- Model PV-DV351/PV-DV701 can be used with either a MultiMediaCard or a SD Memory Card
- Both of these exterior Memory Cards (MultiMediaCard and SD Memory Card) are lightweight and removable
- Both Memory Cards (MultiMediaCard and SD Memory Card) are offered in a variety of memory sizes, so you can purchase a higher capacity Memory Card if desired

### **Pre-recorded Titles**

The supplied Memory Card is prerecorded with the following titles which can be inserted into a recording



- Titles can be permanently erased from the Memory Card,
- e g formatting the card or using the delete all images feature (See pages 35, 36, 37)
- If a title is erased, the remaining title numbers will change

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or You

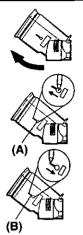
## Palmcorder Accessory Order Form

#### Please photocopy this form when placing an order

- 1 Palmcorder Model #
- 2 Items Ordered

Accessory #	Description	Price Each	Quantity	Total Price
		<u> </u>		
	<b>I</b>	<u> </u>	Subtotal	<u>}</u>
		Vour State 4	Local Sales Tax	
			ipping & Handling	6 95
		31		}
3 Method of pay	ment (check one)		Total Enclosed	L
	Money Order enc		SHIPMENTS)	
	Credit Ca		,	
MasterCa	rd Expiration	n Date		
Discover			· · · · · · · · · · · · · · · · · · ·	
		-		
	Make C	-	Order to PANASO	
(Please do not s	Make C end cash)	Check or Money C	Order to PANASO	NIC ACCESSORI
(Please do not s	Make C end cash)	Check or Money C		NIC ACCESSORI
(Please do not s 4 Shipping infor Ship To Mr	Make C end cash)	Check or Money C	Order to PANASO	NIC ACCESSORI
(Please do not s 4 Shipping infor ShipTo Mr Mrs Ms	Make C end cash) mation (UPS deliv	Check or Money C	Order to PANASO	NIC ACCESSORII
(Please do not s 4 Shipping infor Ship To Mr Mrs	Make C end cash)	Check or Money C	Order to PANASO	NIC ACCESSORII
(Please do not s 4 Shipping infor ShipTo Mr Mrs Ms	Make C end cash) mation (UPS deliv Las	Check or Money C	Order to PANASO	NIC ACCESSORII
(Please do not s 4 Shipping infor Ship To Mr Mrs Ms First Street Adda	Make C end cash) mation (UPS deliv Las	Check or Money C very requires com	Order to PANASO	NIC ACCESSORII
(Please do not s 4 Shipping infor Ship To Mr Mrs Ms First	Make C end cash) mation (UPS deliv Las	Check or Money C	Order to PANASO plete street addres Phone # Day (	NIC ACCESSORII
(Please do not s 4 Shipping infor Ship To Mr Mrs Ms First Street Addi City	Make C end cash) mation (UPS deliv Las	Check or Money C very requires com t State Zip	Order to PANASO plete street addres Phone # Day (	NIC ACCESSORI 58) )
(Please do not s 4 Shipping infor Ship To Mr Mrs Ms First Street Addu City	Make C end cash) mation (UPS deliv Las ress	Check or Money C very requires com t State Zip ICORDER ACCESS FOLLOWING IR LOCAL PANASC	Order to PANASO plete street addres Phone # Day (	NIC ACCESSORI 58) )
(Please do not s 4 Shipping infor Ship To Mr Mrs Ms First Street Addu City TO OBTAIN	Make C end cash) mation (UPS deliv Las ress ANY OF OUR PALM VISIT YOL	Check or Money C very requires com t State Zip ICORDER ACCESS FOLLOWING IR LOCAL PANASC OR	Proder to PANASON plete street addres Phone # Day (	NIC ACCESSORI

### Cleaning the EVF (Electronic Viewfinder)



- 1 Tilt Viewfinder upward
- 2 Press (A) with a sharp end tip like a ball point pen or mechanical pencil and slide in direction of arrow This opens the access hole
- 3 Remove any lint or dust from the access hole with canned air or other air blower
  - Press (B) with a sharp end tip like a ball point pen or mechanical pencil and slide in direction of arrow

### Approximate Brightness Values

Your Palmcorder has been designed for normal scene illumination of 150 footcandles (1500 lx) However, the Palmcorder may be used at F1 1 8, if illumination is more than 0.5 footcandles (5 lx)

The table below shows the color temperature for reference

PALMCORDER SETTINGS	NATURAL LIGHT CONDITIONS	KELVIN COLOR TEMPERATURE	ARTIFICIAL LIGHT SOURCE	COLOR TINT MIXTURE
(Amber Filter Range)	Fair weather, blue sky	- 10,000	Color television	Bluish
├ - <sub> </sub> <mark> </mark> <b></b> -	<ul> <li>Slightly cloudy sky</li> </ul>	8,000		
	<ul> <li>Cloudy or rainy sky</li> </ul>	— 7,000 — 6,500	Fluorescent lamp (Daylight)	
	<ul> <li>Sunlight in clear weather at midday</li> </ul>	— 6,000 — 5 500	Camera flash bulb	
"OUTDOOR"	Average sunlight in clear weather	- 5, <b>0</b> 00	Blue lamp for photography	
"AUTO"	<ul> <li>Sunlight 2 hours after sunrise and before sunset</li> </ul>	4,500 4,000 3 500	Fluorescent lamp (White)     Normal flash bulb     Fluorescent lamp (Off-white)	Whitish
	<ul> <li>Sunlight 40 min after sunrise and before sunset</li> </ul>	- 3,200	Tungsten lamp for photography	
<b>.</b>	<ul> <li>Sunlight 30 min after sunrise and before sunset</li> </ul>	- 2,800	• Halogen lamp • Iodine lamp	
(Blue Filter Range)	<ul> <li>Sunlight 20 min after sunrise and before sunset</li> </ul>		Tungsten lamp     Acetylene lamp	Yellowish
		- 2,000	Kerosene lamp     Candlelight	Reddish

For Your Information

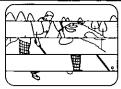
## Specifications

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Power Source:	Palmcorder: 7.2 V DC (Battery) 7.8 V DC (AC Adaptor)
	AC Adaptor: 110/120/220/240 V AC, 50/60 Hz Battery: Lithium-Ion Type DC 7.2 V
Power Consumption:	Palmcorder: 7.2 V/7.8 V DC 6.5 W (Max. 9.5 W) AC Adaptor :18 W 1 W (when not in use.)
Digital Interface	USB/i.Link (IEEE1394)
Video Signal:	EIA Standard (525 lines, 60 fields) NTSC color signal
Video Recording System:	2 rotary heads, helical scanning system
Audio:	12 bit (32 kHz) 4 tracks
Addio.	16 bit (48 kHz) 2 tracks
Pick-Up System and Device:	One integral color filter Charge Coupled Device (CCD)
Lens:	10:1 zoom lens, F1:1.8 with auto iris control Focal length: 3.6 mm - 36 mm Power zoom function Lens filter diameter: 43 mm
Viewfinder:	0.44 inch (11.2 mm) Liquid Crystal Electronic Viewfinder
LCD Monitor:	2.5 inch (63.5 mm) Liquid Crystal Display (PV-DV351) 3.5 inch (88.9 mm) Liquid Crystal Display (PV-DV701)
Minimum Illumination Required:	5 lx (F1:1.8) 0.5 footcandles 0 lx (MAGICVU/0LUX ON)
Memory (Still image)	MultiMediaCard/SD Memory Card 320 x 240 pixels (NORMAL mode) 640 x 480 pixels (FINE mode)
Image Storage (supplied 8 MB Memory Card)	Approx. 210 images (NORMAL mode) Approx. 60 images (FINE mode)
Image Format	JPEG (Design Rule for Camera File System)
Operating Temperature:	32 °F~104 °F (0 °C~40 °C)
Operating Humidity:	10 %~75 %
Weight:	Palmcorder: 1.28 lbs.
	0.58 kg AC Adaptor: 0.35 lbs. 0.16 kg
Dimensions:	Palmcorder : 3 (W) x 3-10/16 (H) x 7-13/16 (D) inch 76 (W) x 92 (H) x 198 (D) mm
	AC Adaptor : 2-3/4 (W) x 1-3/4 (H) x 4-1/2 (D) inch 70 (W) x 45 (H) x 115 (D) mm

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

## **Before Requesting Service**

### **Cleaning Care for Video Heads**



**Clogged Video Head** 

(a) Video Head Cleaning Normally, your Palmcorder will not require head cleaning However, it is possible that the heads may become clogged due to dust in the air, playing damaged tapes, long term use, etc If "NEED HEAD CLEANING" appears for 5 seconds in the EVF or LCD monitor, 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 Servicenter An alternate solution is to obtain a head cleaning cassette Please use Panasonic cleaning cassette (AY-DVMCLA) Be sure to follow the cleaning instructions carefully Excessive use of the head cleaning cassette could shorten video head life Use this cassette only when a head clogging symptoms occur

Refer servicing to qualified service personnel

### **Tape Operations Caution**

- When you go from function to function (PLAY, FF, REW etc.), please note that the unit will not accept a new function operation until the previous operation is complete
- The POWER Button and all function buttons, (PLAY, FF, REW, etc.) are only operational after the tape has been completely loaded

### Lens Hood Area Operation Caution

When the following accessories are attached and the zoom is set to maximum wide angle, the four corners of the sceen may appear darker

- Wide or Telephoto conversion lens (optional)
- A filter (optional), etc and then the lens hood
- Two filters (optional)

### Self Diagnostic System

If any of the following numbers appear on-screen, the camcorder may need service. Do not remove the battery (if attached) and write down the displayed number on page 72 Then, take the camcorder to a servicenter for repair

Error No	Description
U11	Card Error
U12	Card Error
U13	Card Error
U14	Card/Camcorder Dialogue Error
U15	No Card Memory
U16	Captured image limit exceeded
U17	Captured image limit exceeded
U30	Error other than above

# Before Requesting Service

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

Symptom	Correction
No picture in the EVF or LCD Monitor	<ul> <li>Make sure the Power Source is connected. (pp. 11, 12)</li> <li>Make sure the POWER switch is set to VCR or CAMERA. (pp. 22, 27)</li> <li>Check the Dew Indicator. (p. 21)</li> <li>Make sure the Battery is fully charged. (p. 11)</li> <li>Make sure all necessary cables are connected correctly and firmly. (p. 12)</li> <li>Make sure the Lens Cap is removed. (p. 22)</li> </ul>
Video cassette cannot be inserted	<ul> <li>Make sure the Power Source is connected. (pp. 11, 12)</li> <li>Insert the cassette record tab up, window side facing out. (p. 9)</li> </ul>
Video cassette cannot be removed	<ul> <li>Make sure the Power source is connected. (pp. 11, 12)</li> </ul>
No operation starts when operation buttons are pressed	Check the Dew Indicator. (p. 21)
Recording cannot be done	Make sure the record tab is closed. (p. 6)     Check the Battery Indication. (p. 19)
Auto Focus does not operate	<ul> <li>Make sure FOCUS is set to AUTO. (p. 47)</li> <li>Make sure the unit is ON and set to CAMERA mode. (p. 22)</li> </ul>
Sound from microphone cannot be monitored	Make sure the unit is set to REC or REC/ PAUSE mode.
Sound cannot be heard	Make sure the Audio on the VCR MENU is set to ST1. (pp. 17, 51)

## **Request for Service Notice**

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

**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.

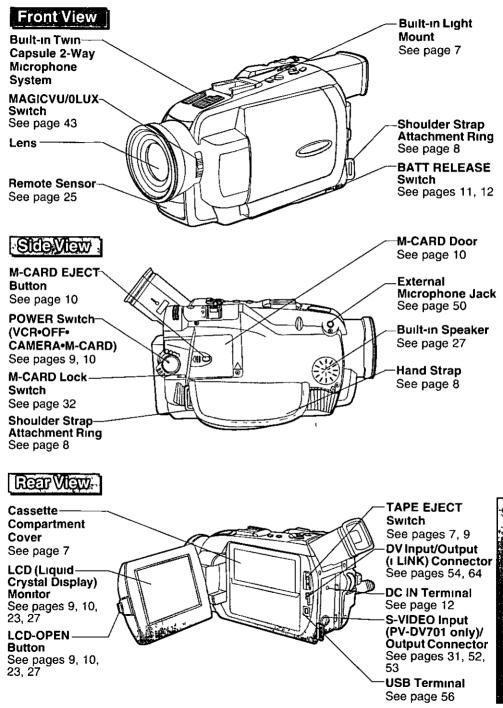
Mail this completed form and your Proof of Purchase along with your unit to: Panasonic Services Company 1705 N. Randall Road Elgin, IL. 60123-7847 Attn: Camcorder Repair

Please write the displayed Self Diagnostic number here. (See page 71.)

-	

For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

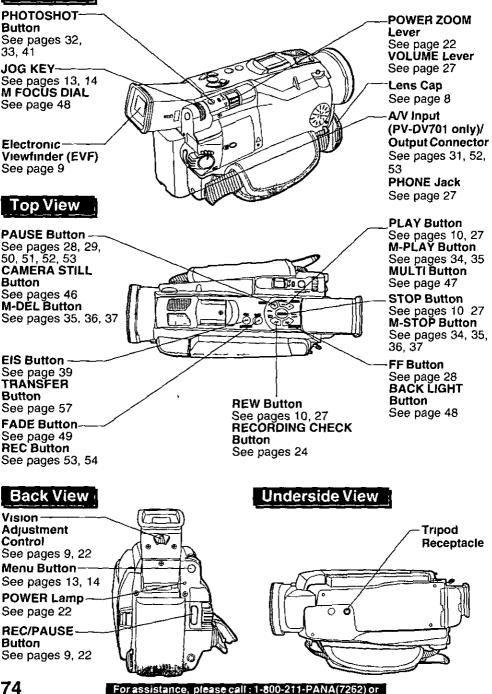
## Index of Controls



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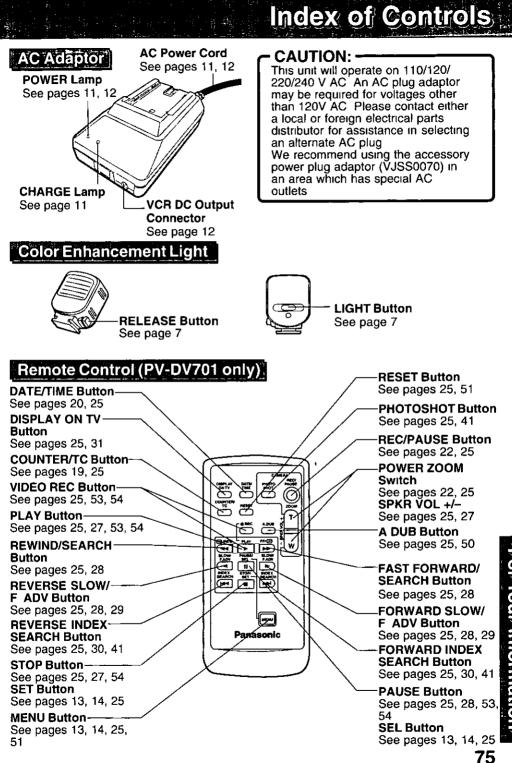
## Index of Controls

### **Rear View**



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sende-mail to: consumerproducts@panasonic.com



For Your Inform

Limited Warranty/

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 Infanteria, 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 or replace this product with new or refurbished parts or equivalent product, 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	SERVICE	CONTACT NUMBER
CAMCORDER	ONE (1) YEAR EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR DECK	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
DIGITAL STILL CAMERA	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS NINETY (90) DAYS	Carry-In or Mail-In	1-800-272-7033
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail-In	1-800-211-PANA(7262)
TV/VCR, TV/DVD TV/DVD/VCR COMBINATION	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	Carry-In 21" CRT and Smaller In-Home or Carry-In 22" CRT and Larger	1-800-211-PANA(7262)
TV/HDR COMBINATION	ONE (1) YEAR, EXCEPT CRT CRT - TWO (2) YEARS	NINETY (90) DAYS CRT - NINETY (90) DAYS	In-Home or Carry-In	1-888-843-9788

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

Tape (if included) - New video cassette tape in exchange for a defective video cassette tape for five (5) days Memory cards (if included) - Exchange defective item for new one for ninety (90) 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 Servicenter Directory Or call toll free contact number listed above, 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 requires 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, set-up 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 RECORDING MEDIA) 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 Consumer Affairs Department 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 02/ 12/ 2001



For assistance, please call : 1-800-211-PANA(7262) or sende-mail to: consumerproducts@panasonic.com

Servicenter List

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquires please contact: 1-800-211-PANA(7262), Monday-Friday 9am-9pm Saturday-Sunday 9am-7pm, EST. or send e-mail : consumerproducts@panasonic.com

Web Site: http://www.panasonic.com You can purchase parts, accessories or locate your nearest servicenter by visiting our Web Site.

#### Accessory Purchases:

1-800-332-5368 (Customer Orders Only) Panasonic Services Company 20421 84th Avenue South, Kent, WA 98032 (6 am to 5 pm Monday - Friday, 6 am to 10 30 am Saturday, PST) (Visa, Master Card, Discover Card, American Express, Check)

#### Product Repairs

#### **Centralized Factory Servicenter**

MAIL TO

Panasonic Services Company 1705 N Randall Road, Elgin, IL 60123-7847

Attention Digital Camera 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 Servicenter Locations

#### CALIFORNIA

6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S San Francisco CA 94080

3878 Ruffin Road Suite A San Diego, CA 92123

#### FLORIDA

3700 North 29th Avenue Suite 102 Hollywood FL 33020 GEORGIA

8655 Roswell Road Suite 100 Atlanta, GA 30350

#### ILLINOIS

9060 Golf Road Niles IL 60714 1703 North Randall Road Elgin, IL 60123 (Pick-up / Drop-off only)

#### MASSACHUSETTS

60 Glacier Drive, Suite G Westwood, MA 02090

#### MINNESOTA

7850-12th Avenue South Airport Business Center Bloomington, MN 55425

#### OHIO

2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

#### PENNSYLVANIA

2221 Cabot Blvd West Suite B Langhome, PA 19047

#### TEXAS

13615 Welch Road Suite 101 Farmers Branch, TX 75244

WASHINGTON 20425-84th Avenue South Kent WA 98032

#### HAWAII

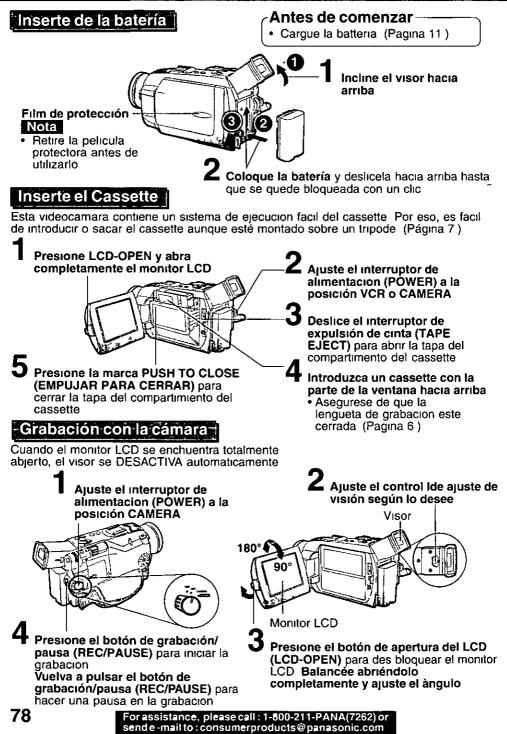
99-859 Iwaiwa Street Alea, Hawaii 96701 Phone (808) 488-1996 Fax (808) 486-4369

#### 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

As of June 2001

## Spanish Quick Use Guide/Guía Para Uso Rápido



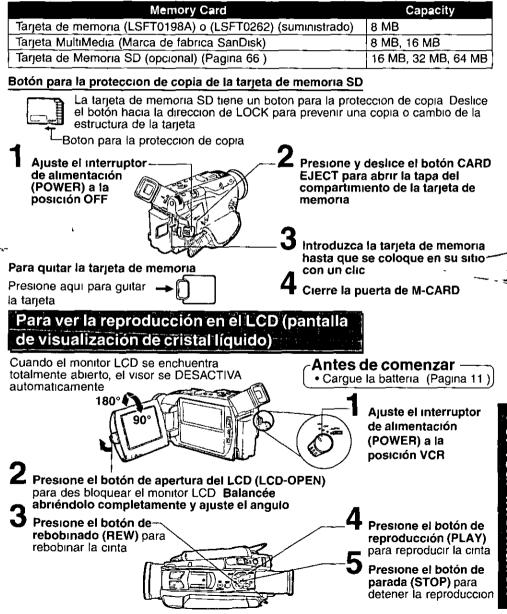
Spanish Quick Use Guide/Guía Para Uso Rápido

### Introducir la Tarjeta de memoria

### Antes de comenzar

Cargue la batteria (Pagina 11)

- \*Tarjeta de Memoria Tarjeta MultiMedia o Tarjeta de Memoria SD (Pagina 67)
  Asegurese de introducir la Tarjeta de memoria antes de utilizar la tarieta PhotoShot
- (Pagina 32) A continuación se indican una lista de Tarietas de Memoria soportadas por esta unidad



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#### Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of America One Panasonic Way Secaucus, New Jersey 07094

Division of Matsushita Electric of Puerto Rico, Inc Ave 65 de Infanteria, Km 9 5 San Gabriel Industrial Park Carolina Puerto Rico 00985

Panasonic Sales Company ("PSC"),

