

# Panasonic

# Complyielon MS TV/DVD/VCR Combination Operating Instructions Model No. PV-DF2700/PV-DF2000













4 HEAD Hi-Fi VCR







As an ENERGY STAR® Partner, Matsushita Electric Corporation of America has determined that this product or product model meets the ENERGY STAR® guidelines for energy efficiency.

DOLBY

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Please read these instructions carefully before attempting to connect, operate or adjust this product. Please save this manual. Spanish Quick Use Guide is included. (Guía para rápida consulta en español está incluida.)

LSQT0281A

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

Advanced Operation

# Important Safeguards and Precautions

#### READ AND RETAIN ALL SAFETY AND OPERATING INSTRUCTIONS. HEED ALL WARNINGS IN THE MANUAL AND ON UNIT

#### INSTALLATION

- 1 POWER SOURCE CAUTION Operate only from power source indicated on unit or in this manual. If uncertain, have your Electric Utility Service Company or Video Products Dealer verify your home power source.
- 2 POWER CORD PLUG
  - For safety, this unit has a polarized type plug (one wide blade), or a three-wire grounding type plug. Always hold the plug firmly and make sure your
- hands are dry when plugging in or unplugging the AC power cord. Regularly remove dust, dirt, etc. on the plug.

#### POLARIZED PLUG CAUTION:

The plug fits into outlet one way. If it cannot be fully inserted, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not tamper with the plug.

#### **GROUNDING PLUG CAUTION:**

- The plug requires a three-hole grounding outlet.
- If necessary, have an electrician install the proper
- outlet. Do not tamper with the plug.

#### **3 POWER CORD**

- To avoid unit malfunction, and to protect against electrical shock, fire or personal injury:
- Keep power cord away from heating appliances and walking traffic. Do not rest heavy objects on, or roll such objects over the power cord.
- Do not tamper with the cord in any way.
- An extension cord should have the same type plug (polarized or grounding) and must be securely connected.
- Overloaded wall outlets or extension cords is a fire hazard.
- Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified electrician.

#### **4 DO NOT BLOCK VENTILATION HOLES**

- Ventilation openings in the cabinet release heat generated during operation. If blocked, heat build-up may result in a fire hazard or heat damage to cassettes or discs. For your protection:
- a. Never cover ventilation slots while unit is ON, or
- operate unit while placed on a bed, sofa, rug, or other soft surface.
- b. Avoid built-in installation, such as a book case or rack, unless properly ventilated.

#### 5 PLACEMENT AVOID EXTREMELY HOT LOCATIONS OR SUDDEN TEMPERATURE CHANGES

Do not place unit over or near a heater or regulator, in direct sunlight, inside closed vehicles, in high temperature [over 95 °F (35 °C)], or in over 75% humidity. If unit is suddenly moved from a cold place to a warm one, moisture may condense in unit and on the tape causing damage. Never subject unit to vibration, impact, or place it so that the surface is tilted as internal parts may be seriously damaged.

#### 6 TO AVOID PERSONAL INJURY

 Never place unit on support or stand that is not firm, level, and adequately strong. The unit could fall causing serious



damage to the unit.
Move any appliance and cart combination with care.
Quick stops, excessive force, and

injury to a child or adult and

Uneven surfaces may cause objects to overturn.
Carefully follow all operating instructions.

#### OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION An outside antenna or cable system must be properly grounded to provide some protection against built up static charges and voltage. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code)

provides information

regarding 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.

NEC - NATIONAL ELECTRICAL CODE

ELECTRODE SYSTEM

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS

Locate an outside antenna system well away from power lines and electric light or power circuits so it will never touch these power sources should it ever fall. When installing antenna, absolutely never touch power lines, circuits or other power sources as this could be fatal.

#### USING THE UNIT

Before unit is brought out of storage or moved to a new location, refer again to the INSTALLATION section of these safeguards.

- 1 KEEP UNIT WELL AWAY FROM WATER OR MOISTURE, such as vases, sinks, tubs, etc.
- 2 IF EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug unit and have it inspected by a qualified service technician before use.

#### **3 ELECTRICAL STORMS**

During a lightning storm, or before leaving unit unused for extended periods of time, disconnect all equipment from the power source as well as the antenna and cable system.

- 4 WHEN UNIT IS PLUGGED IN
  - DO NOT OPERATE IF:
  - liquid has spilled into unit.
  - unit was dropped or otherwise damaged.
  - unit emits smoke, malodors, or noises.

Immediately unplug unit, and have it inspected by a service technician to avoid potential fire and shock hazards.

- Never drop or push any object through openings in unit. Touching internal parts may cause electric shock or fire hazard. Do not put any foreign object on the disc tray.
- Keep magnetic objects, such as speakers, away from unit to avoid electrical interference.

#### **5 USING ACCESSORIES**

Use only accessories recommended by the manufacturer to avoid risk of fire, shock, or other hazards.

#### **6 CLEANING UNIT**

Unplug unit. Use a clean, dry, chemically untreated cloth to gently remove dust or debris. DO NOT USE cleaning fluids, aerosols, or forced air that could over-spray, or seep into unit and cause electrical shock. Any substance, such as wax, adhesive tape, etc. may mar the cabinet surface. Exposure to greasy, humid, or dusty areas may adversely affect internal parts.

#### SERVICE

- 1 DO NOT SERVICE PRODUCT YOURSELF
- If, after carefully following detailed operating instructions, the unit does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug unit and contact a qualified service technician.

#### 2 REPLACEMENT OF PARTS

Make sure the service technician uses only parts specified by the manufacturer, or have equal safety characteristics as original parts. The use of unauthorized substitutes may result in fire, electric shock, or other hazards.

#### **3 SAFETY CHECK AFTER SERVICING**

After unit is serviced or repaired, request that a thorough safety check be done as described in the manufacturer's service literature to insure video unit is in safe operating condition.

2

# Safety Precautions/Mesures de sécurité

Warning: To prevent fire or shock hazard, do not expose this equipment to rain or moisture. Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert. Avertissement: Afin de prévenir tout risque d'incendie ou de chocs électriques, ne pas exposer cet

Avertissement: Afin de prévenir fout risque d'incendie ou de chocs électriques, ne pas exposer cet appareil à la pluie ou à une humidité excessive.

Attention: Pour éviter les chocs électriques, introdulre la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the WHS mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

# FCC WARNING: Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

#### CAUTION:

UNIT IS A CLASS I LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE UNIT CORRECTLY AS INSTRUCTED.

WHEN THIS UNIT IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL. CAUTION: LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.

ATTENTION: RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.

(Inside of product)

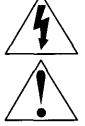
### FCC NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: To assure continued compliance, (example- use only shielded interface cables when connecting to other devices.) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



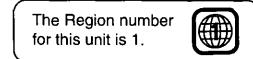


**Region Management Information** 

Region Management Information: This unit is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this unit, this unit cannot play this disc.

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.



# **Table of Contents**

# **Getting Started**

Important Safeguards and Precautions	2
Before Using	6
Connections	a
One Time Setup	12

## **Basic Operation**

## (TV/VGR)

<u> </u>		
	Reset Language, Channels, Clock	.14
	IV Operation	15
	MTS Broadcast / TV Stereo System	16
	Playback a Tape	17
	Record On a Tape	18
	Copy Your Tapes (Dubbing)	. 19
C	DVD	

## Advanced Operation

#### (TV/VGR)

Timer Recording	
Timer Programming using VCR Plus+® System	24
Cable Box Universal Remote Control Feature	28
Picture in Picture (PIP) Operation (For Model PV-DF2700 only)	
Closed Caption System	
FM Radio	34
TV Timer Features	
VCR Status & Clock Display	
V-Chip Control Feature	
Tape Operation	
Special VCR Features	45
Audio Features	46
Audio / Video Menu	48
Audio / Video Adjustment	
Disc Operation	50
	50

DVD Operation using On-Screen Displays	55
DVD Lock Feature	

## For Your Information

## (TV/VGR)

Before Requesting Service	62
Warning and Instruction Displays	63
Spanish Quick Use Guide/Guía para rápida consulta	
Location of Controls	
Service Center List	
Limited WarrantyB	ack Cover

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$\square$	000

Settings for DVD Operation	٥
Language Code List	

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# Index

# TV/VCR

Δ	Accessories	6
~	Audio Adjustment	o
	Audio Features	
	Audio Auto Gain Control (AGC)	40
	Audio Menu	. 40
	Audio Menu Audio Mode for FM Radio	25
	Audio Mode for Playback	. 00 AA
	Audio Mode for Recording	40
	Audio Mode for Recording Audio Mode for TV Viewing	16
	Audio Mute	15
	Audio Mute	.10
	Audio / Video Aujustinent	.43 19
	Auto Operation Functions	.40
D	Detector	. 44
D	Batteries Before Requesting Service	0
	Defore Hequesting Service	. 62
	Before Using	0
	Blocking Message	. 41
	Blue Screen Display	.37
~	Broadcast Types	. 10
U	Cable Box Setup	. 25
	Cable Box Universal Remote Control Feature	. 28
	Caption On Mute	. 33
	Channel 12, 14,	37
	Clock	.14
	Closed Caption Code Numbers, DSS / Cable Box Brand	. 32
	Code Numbers, DSS / Cable Box Brand	. 29
	Commercial Skip	. 42
	Connections	9
	Connections, Audio	. 10
	Connections, DSS / Cable Box	9
	Connections, Outdoor Antenna	9
_	Copy Your Tapes (Dubbing)	. 19
D	Copy Your Tapes (Dubbing) DST. (Daylight Saving Time)	8
Ε	Eject tape	. 17
Ē	Fast Forward	17
-	FM Radio	35
	Forward Search	17
	Frame by Frame Advance	17
	Front Panel Indicators	74
	Function Display	37
н	Head Cleaning	
i '	Important Safeguards and Precautions	/
	Important Galeguarus and Precautions	2
	Index Search	.43
	Input Mode	
Ĺ	Language	14
	Location of Controls	.72
Μ	Move screen MTS Broadcast / TV Stereo System	. 30
	MTS Broadcast / TV Stereo System	16
Ο	100 Key	.15
-	One Time Setup	12
	One Touch Recording	18
	ON-TIMER with Alarm	36

# DVD

в	Auto-Power Off function AUDIO OUTPUT Audio soundtrack language (DVD) Basic DVD Operation Definition of terms	60 50 20
0	Disc Audio attribute 1 type, sampling frequency, bit No Disc handling Disc information screen	50 7 56
	DISC LANGUAGES (DVD) Disc Operation DVD Lock Feature DVD Lock Ratings (DVD)	50 58 58
Ķ	DVD menu (DVD) DVD Operation using On-Screen Displays Frame by Frame Advance (DVD/Video CD) Karaoke (DVD/Video CD) Language Code List	52 55 21 51

Ρ	Phones	15
	Picture in Picture (PIP)	31
	Playback Program End Search	17
<u> </u>	Program End Search	42
R	Quality Picture	17
н	Rapid Tune	15
	Rec(ord) Record/Playback Speed Settings	18
	Remote Control Buttons	ס. ביל
	Remote Control Buttons	20
	Repeat Play	42
	Repeat Play Reset Language, Channels, Clock	14
	Reset unit	. 8
	Reverse Search	17
~	Rewind	17
S	Secret Code	38
	Service Center List	75
	SELF-DEMO Mode	
	Sleep Timer Slow Motion	17
	Spanish Quick Use Guide	65
	Speaker ON/OFF	47
	Special VCR Features	45
	Specifications	. 8
	Still Picture	17
	STOP	17
	Surround Sound	4/ ว₁
т	Tape Erasure Prevention	
•	Time Zone Adjust	12
	Time Zone Adjust Timer Programming using VCR Plus+ System	24
	Timer Program Review, Replace, Clear	23
	Timer Recording Timer Recording Cancellation	22
	Timer Recording Cancellation	23
	TV Operation	15
	TV Timer Features	36
U	Unit, Front/Rear view	74
	Universal Remote Control	20
v	VCR Look	40
v	VCR Lock	40 97
	VCR Status & Clock Display	27
	VCR Status & Clock Display Video Adjustment	49
		48
	V-Chip Control Feature	38
W	Warning and Instruction Displays	63
	Warranty Back Cov	/er
	Warranty	45
Ζ	Zero Search	44

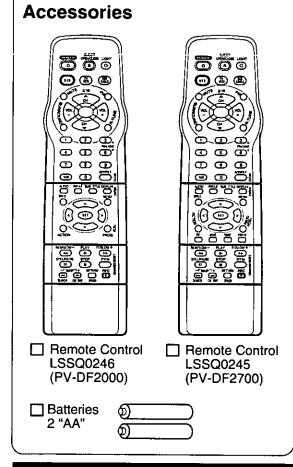
м	Multiple angle viewing (DVD)5	1
P	Picture Zoom (DVD) Playback 22 Playback control (Video CDs) 22 Program Play (Video CD/CD) 55	1
-	Playback	0
	Playback control (Video CDs) 2	1
_	Program Play (Video CD/CD)5	3
R	Random Play (Video CD/CD)	4
	Rapid Advance/Reverse 2	1
	Repeat Play5 RESUME function	4
C		
Э	Settings for DVD Operation	9
	Slow Motion (DVD/Video CD)	
	STILL MODE	1
	Still Picture 2	1
	Subtitle language (DVD) 5	0
Т	TV MODE	1
	Title menu (DVD) 5	2
Ų	Unit information screen (Unit)5	7
	;	C

# **Before Using**

# Congratulations

on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, it will bring you and your family years of enjoyment. Please fill in the information below. The serial number is on the tag located on the back of your unit.

Date of Purchase	
Dealer Purchased From	
Dealer Address	
Dealer Phone No	<u> </u>
Model No	
Serial No	
Model No	



## **Record/Playback Time**

Only use tapes with the WIS mark in this unit.

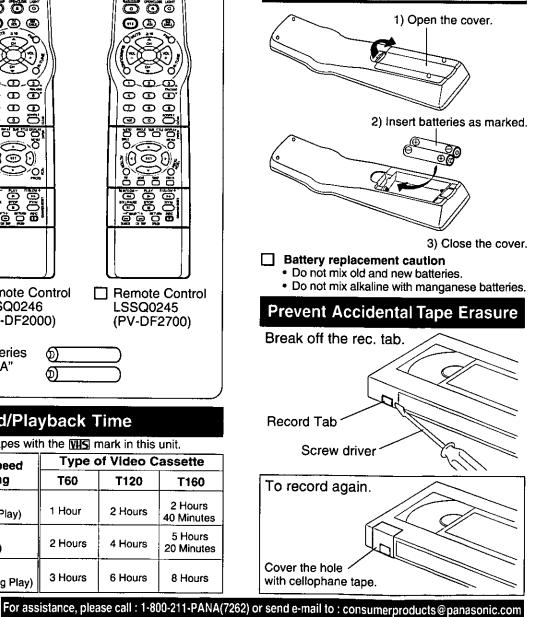
Tape Speed	Туре с	of Video C	assette
Setting	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

# **SELF-DEMO Mode**

If SELF-DEMO screen is displayed when Power is turned ON, hold down **PLAY/REPEAT** on the unit for 5 seconds to deactivate the SELF-DEMO Mode.

Repeat this to display demo screen.

## Loading the Batteries



# Getting Started

#### Disc formats supported by this unit

The unit can play back discs bearing any of the following marks:



#### DVD

3" (8 cm) disc / 5" (12 cm) disc



# Video CD

3" (8 cm) disc / 5" (12 cm) disc



#### CD

3" (8 cm) disc / 5" (12 cm) disc

#### Discs which cannot be played with this unit

- DVD with Region No. other than "1" or "ALL"
- DVD of PAL system
- DVD-ROM
- + DVD-R/DVD-RAM
- CD-ROM
- CDV
- CD-G
- CD-RW
- Do not try to play Photo CD or CD-R.



## **Definition of terms**

#### Angle

Some DVD discs feature scenes simultaneously shot from different angles. The ANGLE button can be used to view the scene from different angles. (ANGLE indicator lights on the unit when a scene

recorded at different angles is detected.)

#### Chapter number

Titles are subdivided into numbered sections. You can quickly search for a favorite scene using these numbers.

#### DVD

A high-density optical disc on which high-quality pictures and sound have been digitally recorded. DVD incorporates new video compression technology (MPEG II) and high-density recording technology which allow entire movies to be recorded with incredible playback quality.

#### Playback control

With Video CD (version 2.0), scenes or information may be selected for viewing or listening from an interactive menu that appears on the TV screen.

#### Subtitles

Written dialogue which appears at the bottom of the screen.

#### Time number

The elapsed play time from the start of a disc or title. Use to quickly find scenes. (May not work with some discs.)

#### Title number

For DVD discs with two or more titles, the title is numbered as title 1, title 2, etc.

#### Track number

Numbers assigned to tracks on Video CDs and CDs to allow specific tracks to be quickly located.

#### Video CD

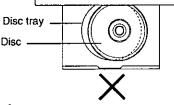
CD containing picture and sound with same quality level as video tape. This unit also supports Video CDs with playback control (version 2.0).

## **Disc handling**

#### Handling precautions

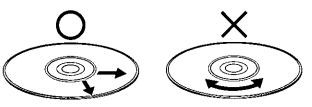
- Only hold disc by edges as shown.
   Fingerprints, dirt, and scratches can cause skipping and distortion.
- Do not write on label side of disc.
- Never use record cleaning sprays, benzine, thinner, static electricity prevention liquids, or any other solvent.
- Be careful not to drop or bend disc.
- Do not place more than 1 disc on disc tray.
- Do not try to close disc tray when disc is not properly placed.
- Always store discs in their proper cases when not in use.





#### To clean disc surface

With a soft, damp (water only) cloth, gently wipe from the center hole to the outer edge as shown below. (Wiping in a circular pattern will scratch the surface.)



#### If disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe away moisture with a soft, dry, lint-free cloth before using disc. (See above.)

#### Improper disc storage

Discs could be damaged if stored or left in areas:

- · exposed to direct sunlight.
- that are humid or dusty.
- near heat (i.e. heater, regulator, etc.).

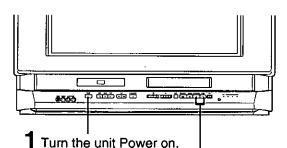
Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. Patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

# Before Using (continued)

### **Reset all unit Memory** Functions

Use when moving unit to a new location, or if a mistake was made in the One Time Setup section. Make sure a tape is not inserted in the unit.



2 Press and hold both FF and PLAY on the unit for more than 5 seconds. The power will shut off.

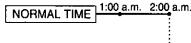
**3** Do "One Time Setup" steps on page 12.

## **DST. (Daylight Saving Time)**

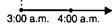
Unit auto adjusts clock for DST (Daylight Saving Time).

#### Spring (First Sunday in April)

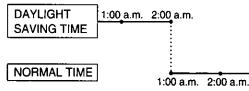
DST:ON - Sets clock ahead one hour.







#### Autumn (Last Sunday in October) DST:ON - Turns clock back one hour.



- If your area does not observe Daylight Saving Time, select DST : OFF (see page 14.)
- Keep these time changes in mind when programming the unit for timer recordings.

## Head Cleaning

Playing older or damaged tapes may eventually cause video heads to become clogged.

#### Head Clog Sensor

During playback this screen appears if clogging is detected. To remove screen, press PLAY on the remote or unit.

- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape directions carefully. Excessive use of head cleaning tape can shorten the
- video head life. If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center. (See page 75.)

VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL

END: PLAY

## Specifications

#### Display

Picture Tube:

VCR Audio Track:

Tuner **Broadcast Channels:** CABLE Channels:

**FM Radio** Band range: General Power Source: Power Consumption:

**Television System:** Speaker: Operating Temperature: Operating Humidity: Weight:

Dimensions:

**Discs played** DVD-VIDEO disc

(2) Compact disc (CD-DA, VIDEO CD) Digital audio output: Optical digital output: Pickup:

27 inch diagonal PureFlat™ Picture Tube (PV-DF2700)

20 inch diagonal PureFlat™ Picture Tube (PV-DF2000)

Video Recording System: 4 rotary heads helical scanning system 1 track (Normal) 2 channel (Hi-Fi Audio Sound)

> VHF 2 ~ 13, UHF 14 ~ 69 Midband A through I (14 ~ 22) Superband J through W (23 - 36) Hyperband AA ~ EEE (37 ~ 64) Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A (01) Ultraband 65 ~ 94, 100 ~ 125

87.5 ~ 108.1 MHz

120V AC, 60 Hz <u>Power On</u> Approx. 174 watts (PV-DF2700) Approx. 128 watts (PV-DF2000) Power Off Approx. 4.5 watts EIA Standard NTSC color 2 pieces 5 °C ~ 35 °C (41 °F ~ 95 °F) 10 % ~ 75% 52.0 kg (114.6 lbs.) (PV-DF2700) 30.0 kg (66.1 lbs.) (PV-DF2000) 760 (Ŵ) x 651 (H) x 503 (D) mm 29-15/16" (W) x 25-5/8" (H) x 19-3/4" (D) (PV-DF2700) 604 (W) x 523 (H) x 503 (D) mm 23-3/4" (W) x 20-9/16" (H) x 19-3/4" (D) (PV-DF2000)

5" (12 cm) single-sided, single-layer 5" (12 cm) single-sided, double-layer 5" (12 cm) double-sided, double-layer (one layer per side) 3" (8 cm) single-sided, single-layer 3" (8 cm) single-sided, double-layer 3" (8 cm) double-sided, double-layer (one layer per side) 5" (12 cm) disc 3" (8 cm) disc Optical connector Wave length : 655 nm (DVD) 790 nm (Videó CD/CD)

Laser power : CLASS II

Note: Designs and specifications are subject to change without notice.

8

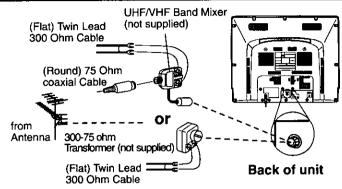
# Connections

# **Outdoor Antenna Connections**

Unhook the antenna from your previous TV or VCR and connect it to the back of the unit as shown in the diagram. If your antenna system has separate UHF and VHF lead-ins, you need a UHF/VHF Band Mixer (not supplied.)

#### WARNING:

When using "Nut type" RF coaxial cables, tighten with fingers only. Overtightening may damage terminals.

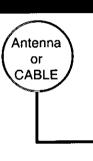


## **DSS/Cable Box Connections**

#### Without a Cable Box

You can;

- record or view unscrambled channels.
   You cannot;
- · record or view scrambled channels.
- view a channel other than the one selected for any type of recording.



Unit VHF/ UHF

#### With a Cable Box

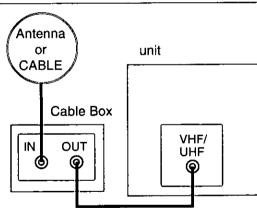
You can;

• record or view any channel including scrambled channels. NOTE: Channel selection must be made at the cable box. You cannot:

- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the cable box.

#### Note to CABLE System Installer

This reminder is provided to call the CABLE (Cable TV) System Installers attention to Article 820-40 of the NEC 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.



#### With a DSS Receiver

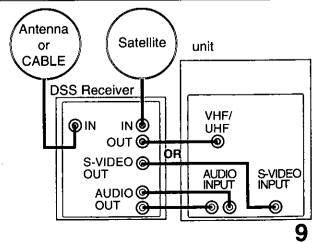
You can;

• record or view any channel including scrambled channels.

NOTE: Channel selection must be made at the DSS Receiver.

You cannot;

- view a channel other than the one selected for any type of recording.
- do a Timer recording of a channel unless you select it at the DSS box.
- NOTE: The DSS receiver must be turned off to view programs from a cable box or antenna. See the DSS manual for details.



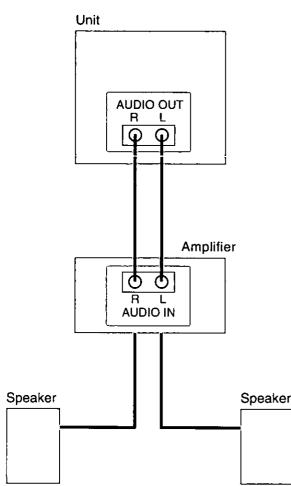
# **Getting Started**

# **Connections (continued)**

## Audio connections

# ■ Unit → Amplifier → Speaker

Do the "Speaker ON/OFF system" steps on page 47, and select "OFF."



#### Check list before you begin.

- Turn down the volume, then turn this unit, as well as other equipment to be connected, off before proceeding with connection.
- Do not block ventilation holes of any of the equipment and arrange them so that air can circulate freely.
- Read through the instructions before connecting other equipment.
- Ensure that you observe the color coding when connecting audio and video cables.

# Enjoying digital audio output from the digital audio output connector

# Notes on audio output from the optical digital audio output connector

Disc	Sound recording format	Optical digital audio output from connector
ÐVD	Dolby Digital (AC-3)	Dolby Digital bitstream (2-5.1 ch) or OFF (no output)
	Linear PCM (48/96 kHz 16/20/24 bit)	Linear PCM (2ch) (48 kHz sampling/16 bit only)* <sup>2</sup> or no output*1
	dts	Bitstream or no output*1
Video CD	MPEG 1	PCM (44.1 kHz sampling)
CD	Linear PCM	Linear PCM (44.1 kHz sampling)

- \*1 The type of audio output from the connector can be selected by the Settings for DVD Operation. (See page 60.)
- \*2 Sound having 96 kHz sampling is converted into 48 kHz sampling when it is output from the unit's optical digital audio output connector.

#### For your reference:

- Dolby Digital (AC-3) is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation.
   Supporting 5.1-channel surround sound, as well as stereo (2-channel) sound, this technique enables a large quantity of sound data to be efficiently recorded on a disc.
- Linear PCM is a signal recording format used in CDs. While CDs are recorded in 44.1 kHz/16 bit, DVDs are recorded in 48 kHz/16 bit up to 96 kHz/ 24 bit.
- If you have a Dolby Pro Logic Surround decoder, you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1 channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.

Pro Logic Surround Sound Decoders please contact your local dealer.

Manufactured under license from Dolby Laboratories. "Dolby", "AC-3", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

Confidential Unpublished Works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

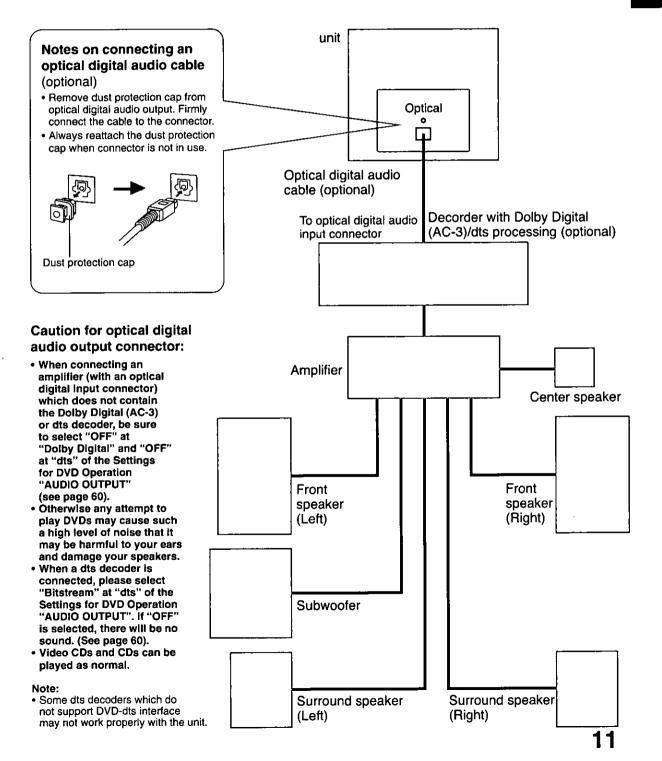
# **Getting Started**

# ■ Unit → Decoder with Dolby Digital (AC-3) → Amplifier → Speaker

or

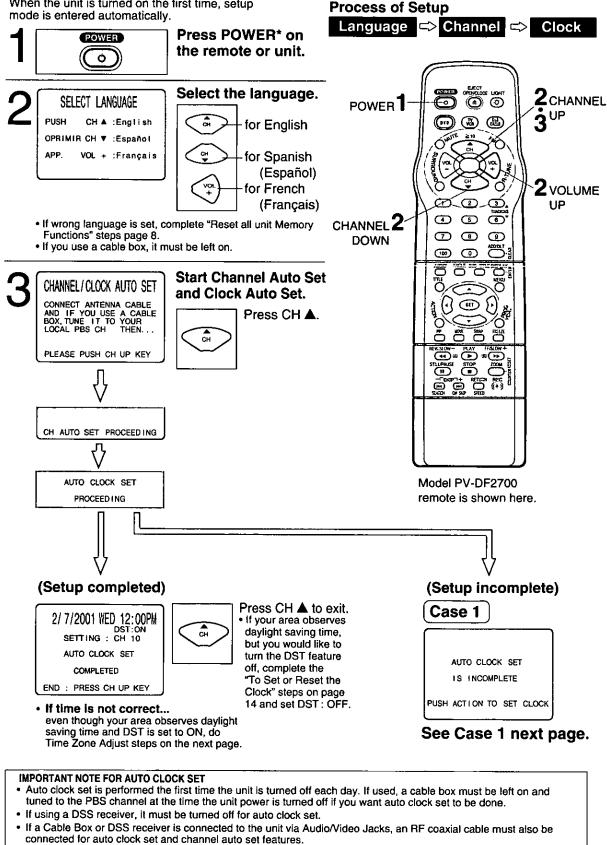
dts (digital theater systems)

When DVDs recorded in Dolby Digital or dts are played, Dolby Digital bitstream or dts bitstream is output from the unit OPTICAL digital audio output connector. When the unit is connected to a Dolby Digital decoder or dts decoder, you can enjoy theater-quality audio in your home. [An optical digital audio cable (optional) is required when an optional Dolby Digital decoder or dts decoder is used.]



# **One Time Setup**

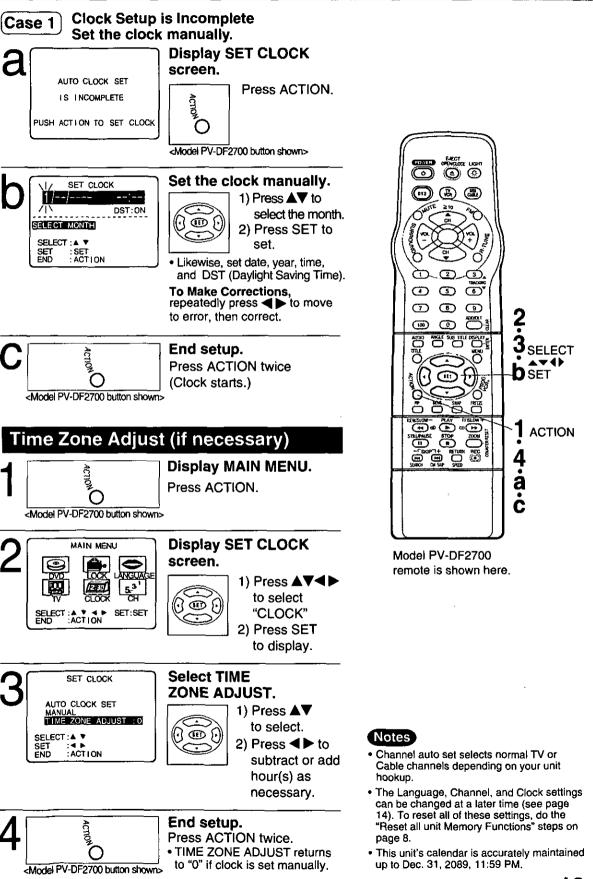
When the unit is turned on the first time, setup mode is entered automatically.



If for any reason the time is changed manually, automatic time correction will not occur.

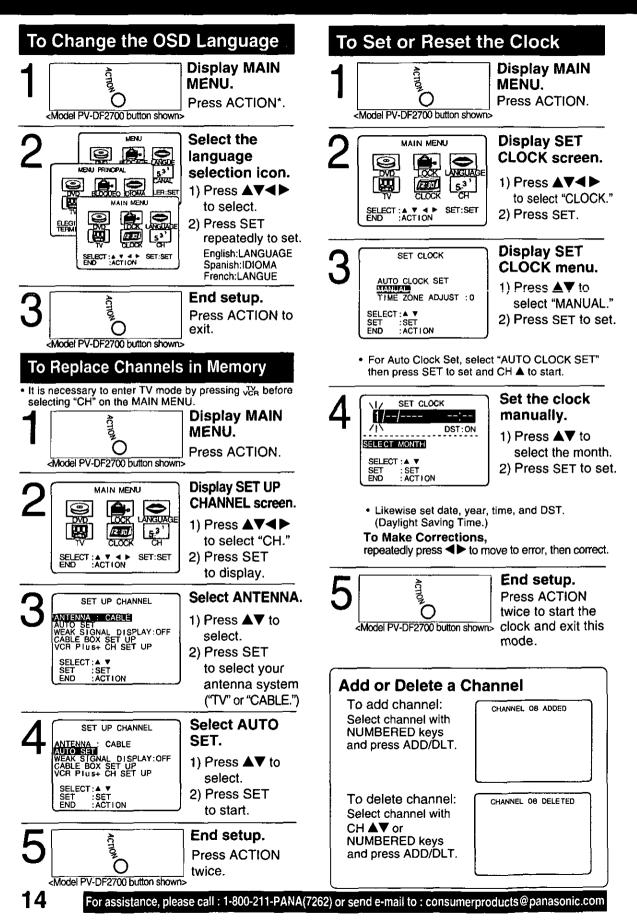


For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com



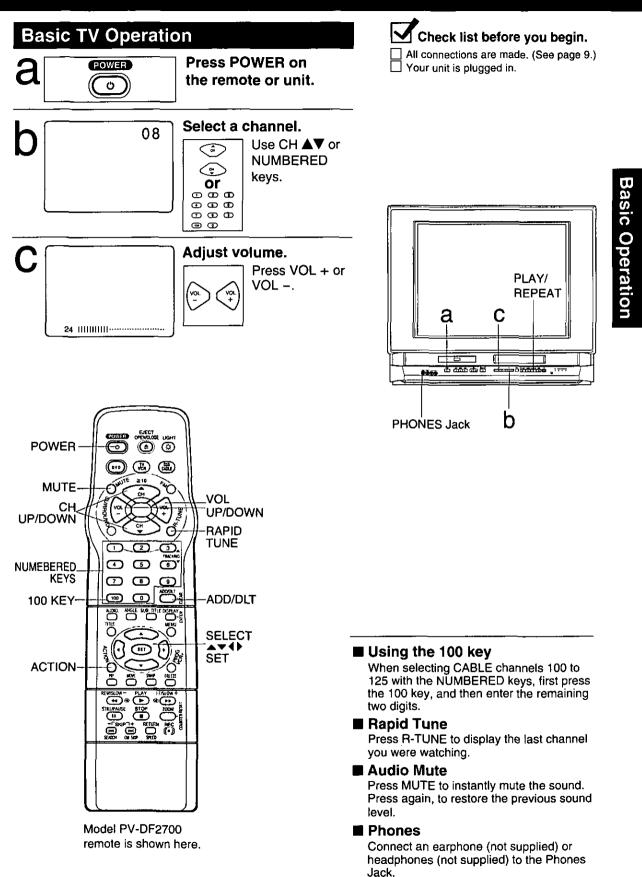
Getting Started

# **Reset Language, Channels, Clock**



# **TV Operation**

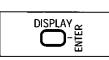
Important: if a remote control button does not work when pressed, press the v<sub>Cn</sub> button on the remote and try the button again.



# **MTS Broadcast / TV Stereo System**

# **Receivable Broadcast Types**

The following are possible broadcast types with their accompanying on-screen displays. The signal being received is indicated with a " **k** " mark while the selected audio mode is indicated with an arrow. To change the audio mode for these broadcasts, follow the "Select Audio Mode for TV Viewing" section (below.)



# Display the broadcast signal being received.

Press DISPLAY\* to display.

STOP 12:00AM CH08 0:00:00 \$STEREO+ SP \$SAP MCNO

12:00AM

12:00AM

CHOS

CH08

0:00:00 SP

0:00:00 SP

STOP

STOP

STEREO ISAP MONO

SAP MONO

#### MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are both being received simultaneously. Select the STEREO or SAP audio mode.

#### MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast. Select STEREO audio mode.

 If stereo broadcast is weak and the display flickers, select MONO audio mode for possibly better results.

#### SAP broadcast

Secondary Audio Program (sub language.) Select SAP audio mode for the sub language.

# STOP 12:00AM CH08 D:00:00 STEREO SP SAP MONO N

#### MONO broadcast

Normal monaural sound broadcast.

## Select Audio Mode for TV Viewing

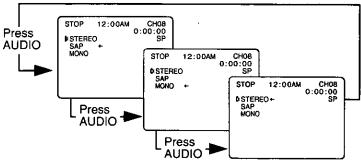


# Press AUDIO to select the desired audio mode as described above.

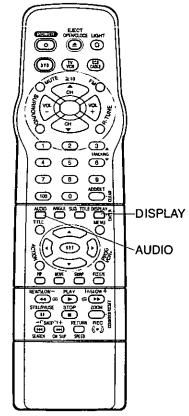
(Arrow shows selection.)

- Each press of AUDIO will change the audio mode as shown below.
- "SAP" is selected with first press of AUDIO.

#### < Example >



Equipped with  $dbx^{\bullet}$  -TV Noise Reduction for true MTS reproduction.  $dbx^{\bullet}$  -TV Noise Reduction is required for good stereo separation and audio fidelity.  $dbx^{\bullet}$  is a registered trademark, and is licensed by  $dbx^{\bullet}$  Technology Licensing.



Model PV-DF2700 remote is shown here.

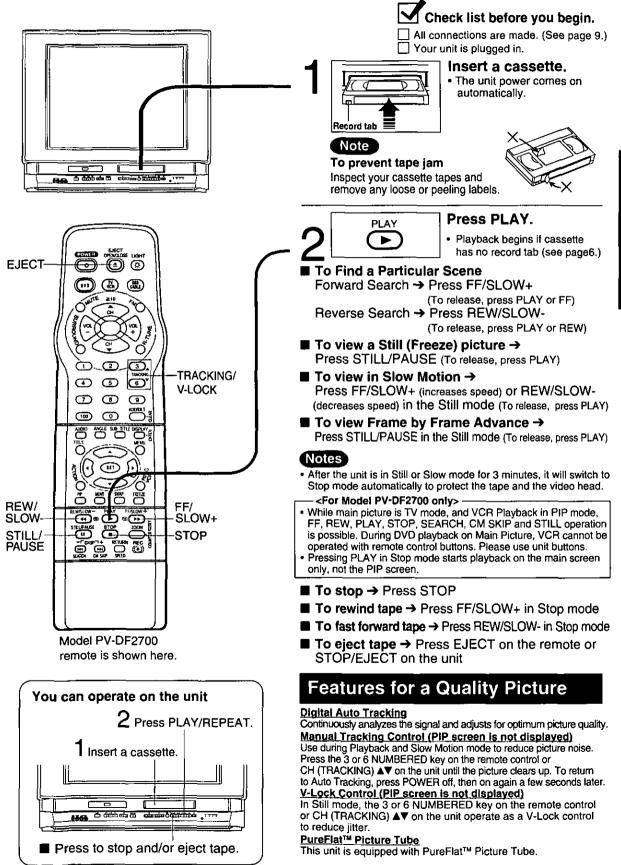
Notes <For Model PV-DF2700 only>
 Only TV audio from Main Picture is output.
 Audio mode can only be changed for the Main Picture.

16

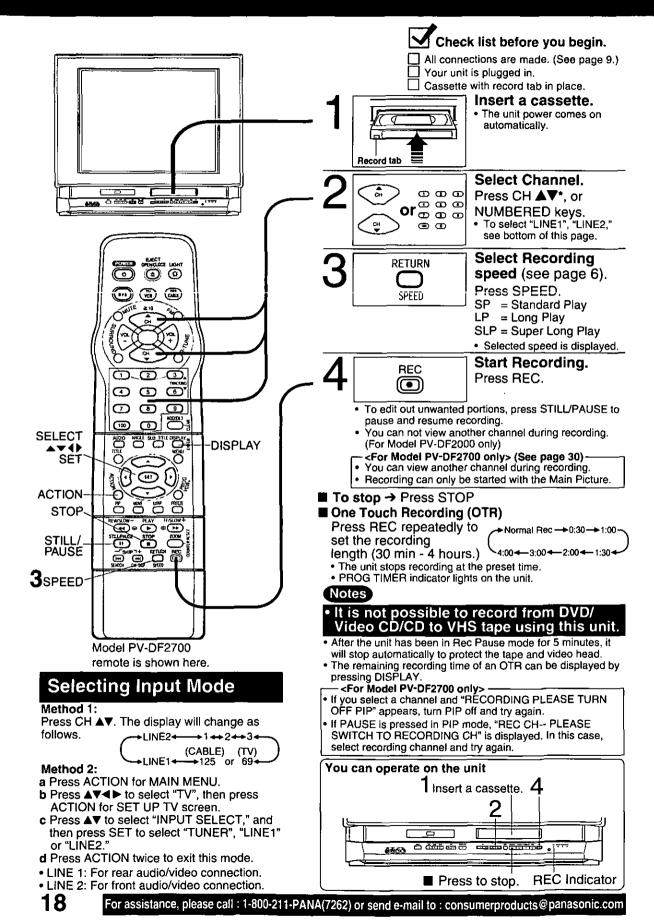
For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

# Playback a Tape

Important: if a remote control button does not work when pressed, press the von button on the remote and try the button again.



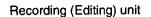
# **Record On a Tape**

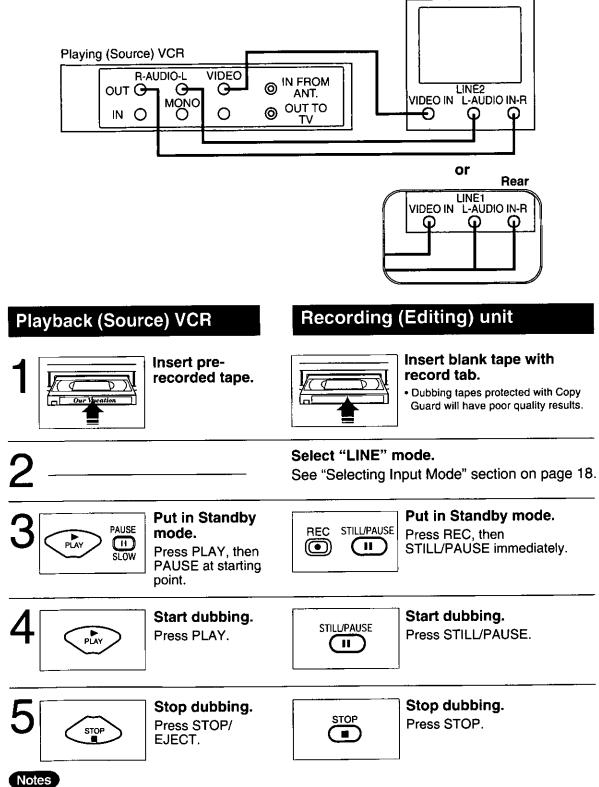


# Copy Your Tapes (Dubbing)

## Connections you'll need to make.

l

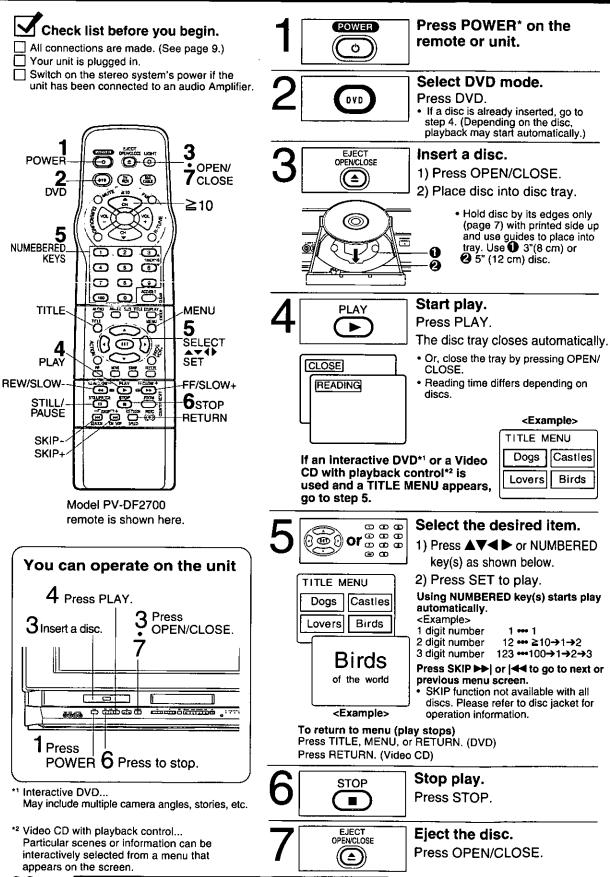




- Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.
- Please note that some discs cannot be dubbed on this unit.
- Also, it is not possible to dub DVD/Video CD/CD to VHS tape using this unit.

Basic Operation

# **Basic DVD Operation**



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

#### To Find a Particular Scene

Rapid Advance → Press FF/SLOW+ in play mode

#### Rapid Reverse →

i

Press REW/SLOW- in play mode

(To release, press PLAY)

- Starting rapid advance (reverse) during play started from menu on Video CDs may recall menu.
- The speed of advance (reverse), slow at first, increases with each additional press of the button up to 5 levels.

#### ■ To Skip a Chapter/Track Skipping Ahead →

#### Press SKIP **>>** during play

Each press skips a chapter (DVD) or track (Video CD/CD).

#### Skipping Back →

#### Press **|** SKIP during play

Pressing once midway through a chapter/track returns to start of that chapter/track. Each additional press skips back one chapter/track.

• Pressing SKIP **>>** or **| <** during play started from menu on Video CDs may recall menu.

Current playback position



#### ■ To view Still Picture (Pause)

Press STILL/PAUSE during play

(To release, press PLAY)

- DVD/Video CD : The unit will enter still picture mode.
- CD : The unit will enter pause mode.

#### ■ To view Frame by Frame Advance (DVD/Video CD)

Each button press advances picture one frame.

Press STILL/PAUSE in still mode

- (To resume normal play, press PLAY)
- Hold button down for consecutive frame advance.
- Whether pictures are advanced by "frame" or "field" is selected automatically.

#### To view Slow Motion (DVD/Video CD)

Press FF/SLOW+ or REW/SLOW- in still mode

(To release, press PLAY)

- Slow motion speed, slow at first, is increased with each additional press of the button up to 5 levels.
- · For Video CDs, reverse slow motion is not available.

 When 
 S appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.

#### **RESUME** function

The unit memorizes the point where STOP is pressed ( ▶ flashes on screen). Press PLAY to resume play from this point. Pressing STOP again or opening the tray cancels RESUME, however, RESUME is not canceled when power is turned off and on.

• RESUME works only with discs for which elapsed play time is displayed during play.

#### Auto-Power Off function

Power turns off after unit has been in stop mode (DVD) for about 5 minutes.

#### Enjoy Video CDs with playback control without using menus (Video CDs only)

- 1. Do steps 1-4 (previous page). When menu appears, press STOP.
- 2. Press NUMBERED key(s) to select desired track (play begins).
  - Check disc for track numbers.
  - Press "1" to start at beginning of disc.

#### To resume menu use

Press RETURN, and then MENU. Now, go to step 5 (previous page).

#### Notes

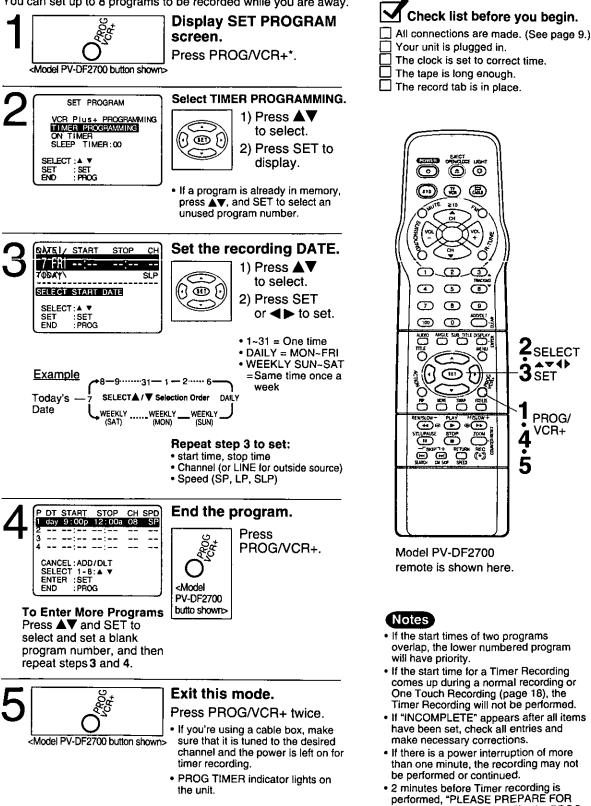
- · Please read the disc jacket for operation information.
- If a single sided disc is placed in upside down, "PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC" is displayed.
- When Power is turned off while in DVD mode, the unit will be in TV mode the next time Power is turned on.
- Remove disc and press unit POWER off when not in use.
- Disc continues to rotate with menu displayed even after play is done. Press STOP to clear menu display when finished with menu.

-- <For Model PV-DF2700 only> -

- TITLE MENU cannot be operated if displayed on the PIP. Press SWAP to switch it to Main Picture, then operate.
- During DVD playback on PIP, DVD cannot be operated by remote control. Press SWAP to switch to Main Picture, or use unit buttons.
- If PIP is canceled during DVD playback on PIP, DVD playback will stop after a while.
- Pressing PLAY in Stop mode starts playback on the main screen only, not the PIP screen.

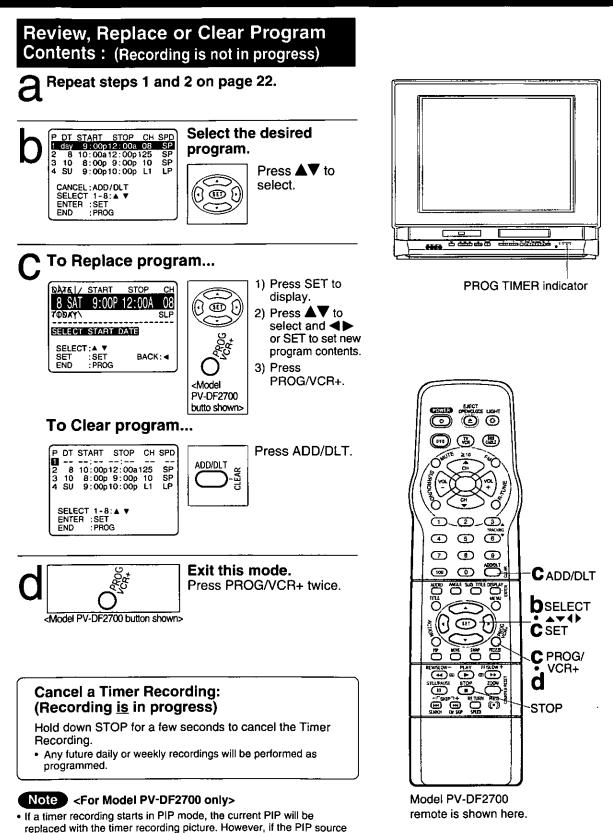
# Timer Recording

You can set up to 8 programs to be recorded while you are away.



TIMER REC" appears and/or the PROG TIMER indicator flashes. Be sure a cassette with record tab is loaded and

the unit is in Stop mode.



is LINE input or if you are watching a DVD/Video CD/CD, the picture

will not change.

# Timer Programming using VCR Plus+® System

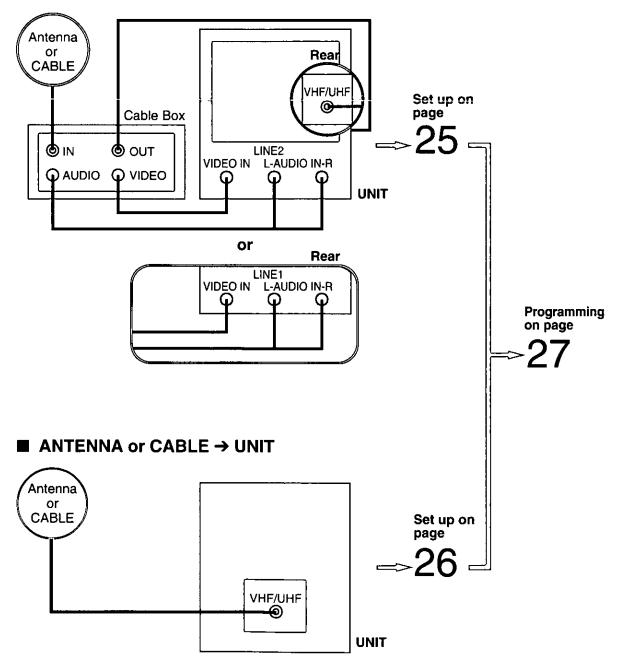
#### VCR Plus+ System is ...

a feature that allows you to set most items of a Timer Recording by simply entering a special code number (PlusCode) found in TV GUIDE and selected newspaper TV listings. Process of Recording

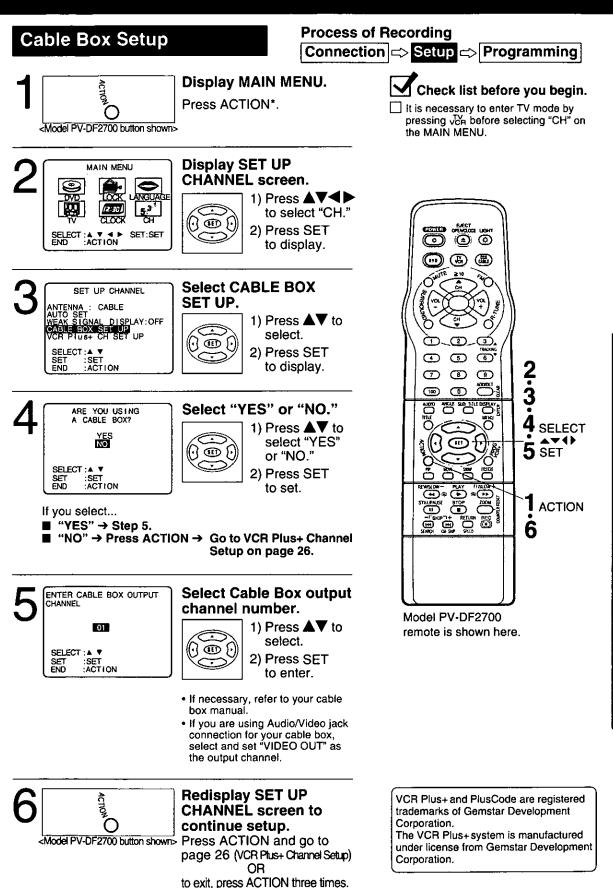
Connection

# Choose your connection type from the following diagrams

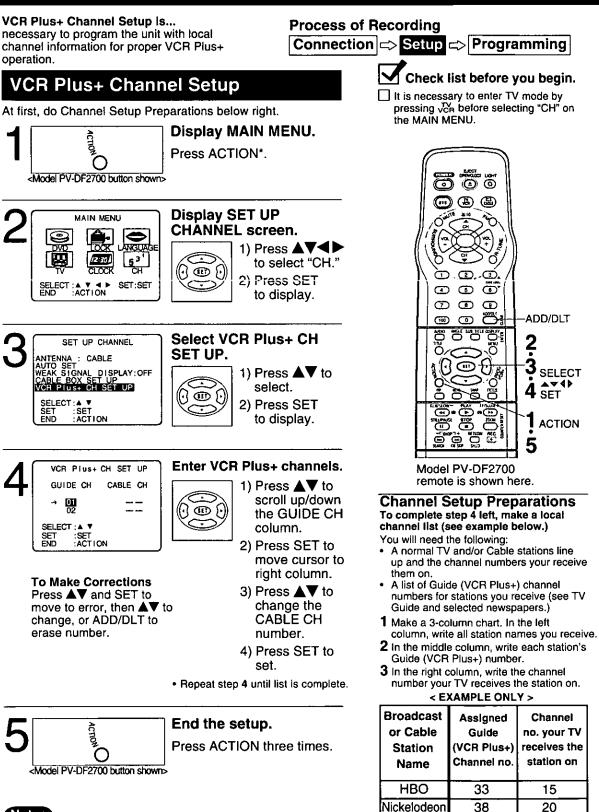
## ■ CABLE BOX → UNIT



\*Important: if a remote control button does not work when pressed, press the  $\frac{1}{\sqrt{2}}$  button on the remote and try the button again.



# Timer Programming using VCR Plus+<sup>®</sup> System (continued)



#### Notes

- Make each entry within 5 minutes or the unit will leave this mode.
- Once local channels have been programmed, they will stay in memory, even in the case of a power failure.

26

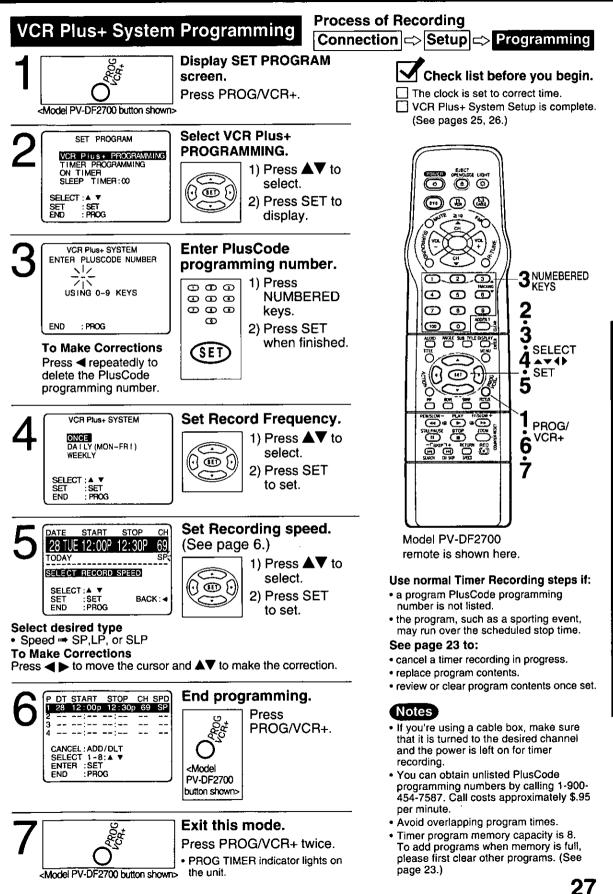
CBS

FOX

34

11

04



# Cable Box Universal Remote Control Feature

## **Universal Remote Control Setup**

#### Find your DSS box or Cable box Brand Code Number from one of the charts on the next page.

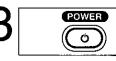
Universal Remote Control is...

The Remote Control may be set up to control some basic DSS or Cable box functions.

#### DSS CABLE and 000 000 o



- 1) Hold down DSS CABLE. Press NUMBERED keys to enter code.
- Enter numbers as follows:
- ••••
- For 02, enter 0, then 2. e.g.
  - For 25, enter 2, then 5. For 102, enter 1, then 0, then 2.



Confirm code entry. Press POWER\* to turn

selected unit ON or OFF.

 See below for a list of controllable functions in each mode.

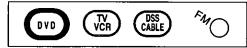
#### Notes

- The remote control will not operate all DSS receivers or Cable Boxes made by the manufactures listed. If you get no results, your particular brand cannot be controlled.
- Please repeat the Universal Remote Control Setup after replacing remote control batteries.

### Using the Universal Remote Control (Available Buttons / Functions)

Once the remote control has been properly set up, you can select TV-VCR, FM, DVD, DSS or CABLE mode depending on which functions you wish to control. (See below.)

Press VCR , FM, DVD, or DSS CABLE on the remote control to select the desired mode. (See below for buttons available in each mode.)



#### Set to ver, FM, DVD:

All TV functions, as well as functions of TV-VCR, FM, or DVD.

#### Set to DSS CABLE:

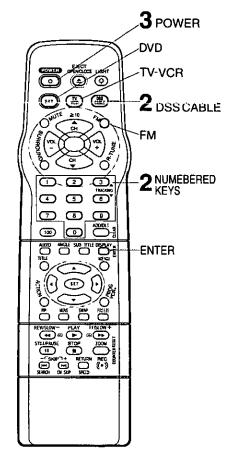
- Basic VCR functions, e.g. PLAY, REC, etc.
- CABLE/DSS functions, e.g. POWER, ENTER, NUMBERED keys (except 100 key), CH UP/DOWN.

#### Notes

28

- In DSS or CABLE mode, POWER, CH Up/Down, NUMBERED keys, ACTION, PROG/VCR+, DISPLAY/ENTER, SEARCH/SKIP-, R-TUNE, SELECT, SET, CM SKIP/SKIP+, COUNTER RESET/ ZOOM, ANGLE, AUDIO, TITLE, SUBTITLE, MENU, or ADD/DLT/CLEAR are not available. Press VCR, FM, DVD to use these functions.
- Due to changes in infra-red commands used by manufacturers, some brands have several codes. If your unit does not respond to the first code, please try the next one.
- . In DSS or CABLE mode, it may be necessary to press ENTER after pressing NUMBERED keys for channel selection.
- · Depending on your DSS receiver or Cable box brand, some of the functions listed may not be remote controllable.
- · Some DSS receiver or Cable box brands require you to turn on the power manually.

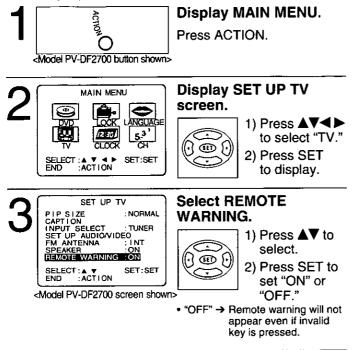
For assistance, please call : 1-800-211-PANA(7262) or send e-mail to : consumerproducts@panasonic.com

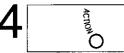


Model PV-DF2700 remote is shown here.

## Remote Warning ON/OFF

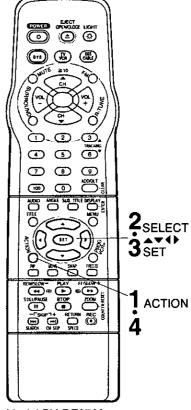
When Universal Remote Control (previous page) is used, and this feature is set to "ON," a warning appears whenever an invalid key is pressed in DSS or Cable mode.





Return to normal screen.

Press ACTION twice.



Model PV-DF2700 remote is shown here.

Model	DV/ DE27	00 button	choums
VINCOCI	1 4-01 21	oo buuton	OLIMANI IN

#### **DSS Brand Code Numbers**

Toshiba	 90
Hitachi/ Hughes	
Primestar	 92
Drake	 93

-	
Magnavox	94, 95
Uniden	94, 95
Optimus	94, 95
Optimus Panasonic	96

#### **Cable Box Brand Code Numbers**

Archer
Cableview
42, 30, 52, 04, 124, 126
Citizen 44, 52, 30, 63, 42, 04, 124, 126
Curtis 08, 09, 25, 61, 53, 87
Century 44, 51, 75, 59, 126
Cabletenna 29, 09, 01, 63, 120, 44, 126
Cable Cinema 29, 09, 01, 63, 120, 44, 126
Diamond 29, 09, 01, 63, 120, 44, 126
Eagle 62, 40, 22, 13, 58, 20, 26, 107
Eastern
Explorer
Gemini 30, 04, 124
General Electric
General Instruments 01, 84, 83, 34, 03, 02,
04, 55, 65, 66, 67, 68,
120, 106, 121, 122, 115, 117, 118, 124
Gerrard 44, 51, 75, 59
GC Electronics 44, 42, 63, 29, 30, 52, 04,
124, 126
Hamlin 41, 14, 15, 28, 102, 104, 103, 130
Hitachi 31
Jerrold 01, 84, 83, 34, 03, 02, 04, 55, 65, 66,
67, 68, 120, 106, 121, 122, 115, 117, 118, 124

Jasco	
Macom	
Magnavox	
Matsushita	17, 16, 08, 87, 109
Movietime 3	32, 39, 42, 44, 126, 38, 40
Maestro	
NEC	
NSC	40, 19, 38, 32
Novavision	08, 09, 25, 61, 53, 87
	84, 83, 34, 03, 02, 04, 55,
65, 66, 6	67, 68, 120, 106, 121, 122
Oak	
Oak Sigma	46, 11, 129, 101
Panasonic	17, 16, 08, 87, 109
Philips 23, 24	, 20, 13, 07, 50, 128, 129
Pioneer	
Pulsar 04, 42	2, 63, 44, 30, 52, 124, 126
Quest	
	44, 51, 75, 59, 126
	17, 16, 08, 87, 109
	44, 51, 75, 59, 126
	15, 28, 102, 104, 103, 130
Hegency	

Rembrandt 44, 42, 63, 29, 01, 32, 39,
120, 126 Samsung
Scientific Atlanta 08, 09, 25, 61, 53, 87
Sheritech
SL Marx 42, 06, 32, 40, 43, 44, 52, 63, 126
Sprucer
Standard Components 32, 39, 42, 44, 126 Stargate 04, 42, 32, 40, 63, 44, 30, 52, 06,
104 106
Sylvania
Sylvania
1 eleview
Texscan
Tocom
Unika 44, 42, 63, 29, 01, 126, 120
Universal 52, 43, 44, 63, 42, 126
Viewstar 62, 40, 22, 13, 58, 20, 26, 107 Videoway
Vidtek
Zenith





# **Picture in Picture (PIP) Operation**

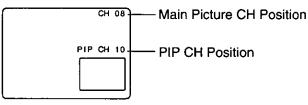
## <For Model PV-DF2700 only>

You can view two pictures simultaneously using Picture in Picture (PIP) display function.

#### Display Picture in Picture (PIP) screen Set PIP. PIP Press PIP. PIP screen is displayed on the Main Picture screen. Main Picture DVD Picture in Picture (PIP) VCR The TV channel last viewed on the PIP screen is displayed on < Example > the PIP screen. Return to the normal PIP screen. Press PIP.

## Select channel / Adjust Volume in PIP mode

in PIP mode, select a channel using CH  $\blacktriangle \lor$  or NUMBERED keys and adjust the volume using VOL + - for the Main Picture only. To select the PIP channel, first press SWAP to switch the PIP to the Main Picture, then select (see page 31.)

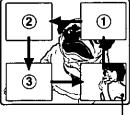


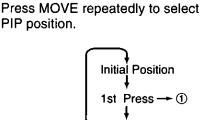
Select PIP position.

# Move screen

You can move the PIP screen to four positions.







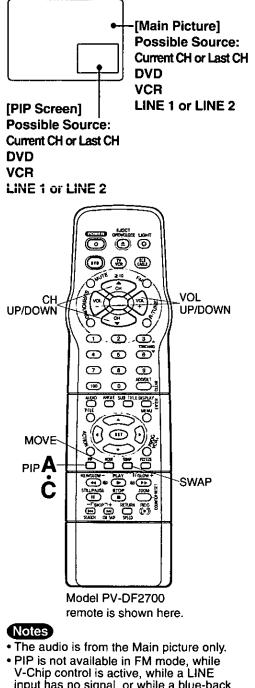
2nd Press - 2

3rd Press --- (3)

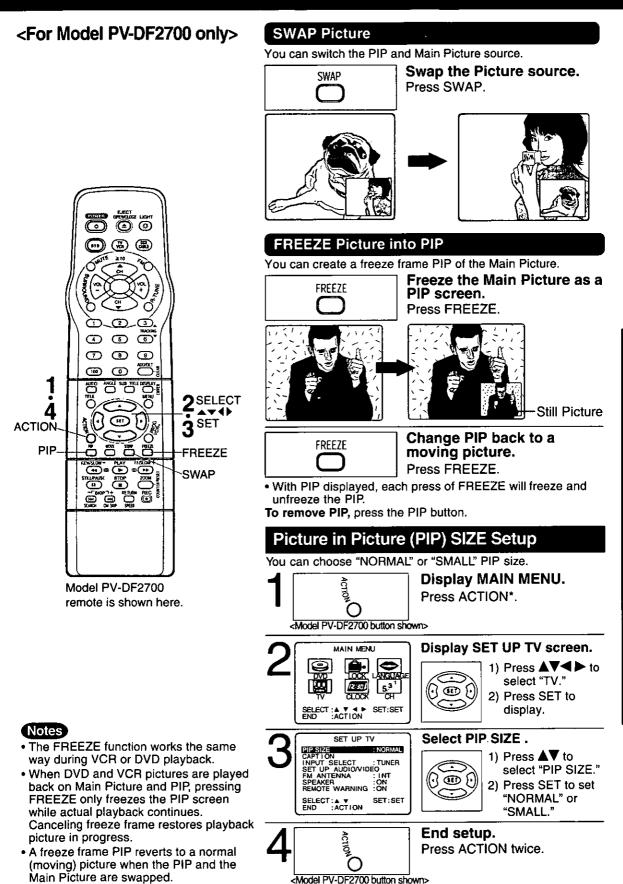
Initial Position

#### Possible Source Combinations for Main Picture and PIP Screen

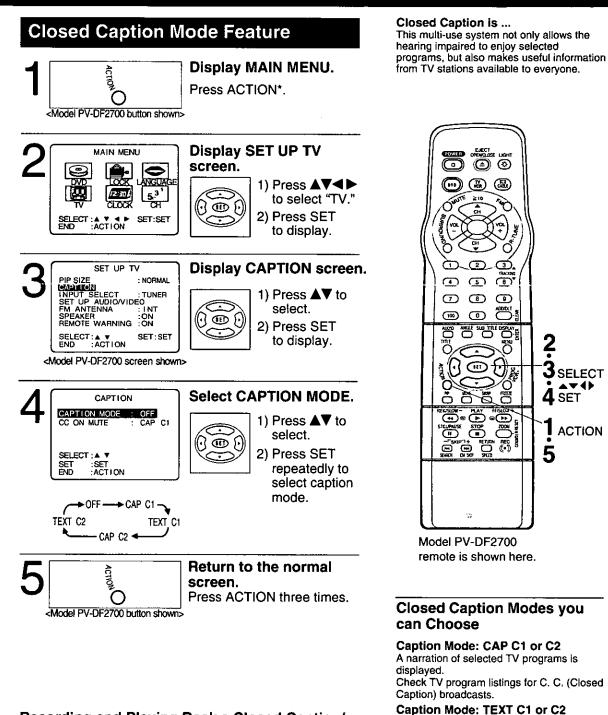
The Main Picture source and the PIP Screen source can be displayed at the same time.



- input has no signal, or while a blue-back (PROG, ACTION, MENU) screen is displayed.
- PIP position and size you set will be retained.
- The MOVE and SWAP buttons are inoperative when PIP screen is off.



# **Closed Caption System**



#### Recording and Playing Back a Closed Caption/ Text Program

#### Record:

Record normally. Closed Caption/Text signal, if present, is recorded automatically.

#### Playback:

32

Start playback. Do above steps to select desired caption mode.

#### appear in this space. Caption Mode: OFF

Closed Caption /Text narration will not be displayed.

The lower half of the screen will be blocked

out. When the TV station broadcasts information, such as program listings, it will

#### NOTE:

The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.

#### **Caption On Mute Feature** Closed Caption narration, if available, is displayed when MUTE button is pressed for silence. **Display MAIN MENU.** ACTION Press ACTION. <Model PV-DF2700 button shown> Display SET UP TV MAIN MENU screen. Press ▲▼◀▶ WGUAGE 5.<sup>31</sup> to select "TV." ۲ ര ۲ ਨਸ (•] 💷 (•) $T \cap U$ 2) Press SET SET:SET **()** (07) SELECT FND ACTION to display. vo ۰QL **Display CAPTION screen.** SET UP TV : NORMAL PIP SIZE 1) Press ▲▼ to INPUT SELECT : TUNER SET UP AUDIO/VIDEO FM ANTENNA : INT Œ (2) Э) select. (·) 🕑 SPEAKER : ON REMOTE WARNING : ON Ð $\odot$ $\odot$ 2) Press SET to SELECT:A V $\overline{\mathcal{O}}$ Ð display. SET: SET 2 ~ ത (100) <Model PV-DF2700 screen shown> Ĵ MENAL O С SELECT Set CAPTION MODE OFF. 4 CAPTION 7**4**) •( SET CAPTION MODE : CAP C1 Press ▲▼ to 5 C CC ON MUTE CAP C1 <u>کم</u> <sup>w</sup> Õ select. 5 I (I) $\left( \cdot \right)$ 2) Press SET SELECT : A 🔻 ÷ 2000 repeatedly to SET SET ACTION select "OFF." PIEC () œ œ 6 Select CC ON MUTE. CAPTION CAPTION MODE : OFF Press ▲▼ to CC ON MUTE CAP C1 select. (i) 💷 (·) 2) Press SET SELECT : A repeatedly to Model PV-DF2700 SET SET select desired remote is shown here. caption mode. Each press of SET will change the NO → CAP C1 display as shown at left. The caption may be broadcast over CAP C24 CAP C1 or C2. Return to the normal à ą screen. Press ACTION three times. Notes <Model PV-DF2700 button shown> When a disc supporting closed caption is used, the subtitle and the closed caption may overlap. In this case, turn the subtitle or **MUTE** Mute sound, display caption on mute mode off. (See page 50.) closed captioning. Press MUTE to mute the <For Model PV-DF2700 only> Closed Captioning can only be displayed on

the Main Picture screen, and not the PIP.

To cancel, press MUTE again.

sound.

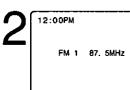
# **FM Radio**

## **FM Radio Setup**

FM

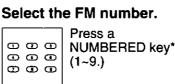
#### Display FM radio mode.

Press FM on the remote or TV/FM on the unit.



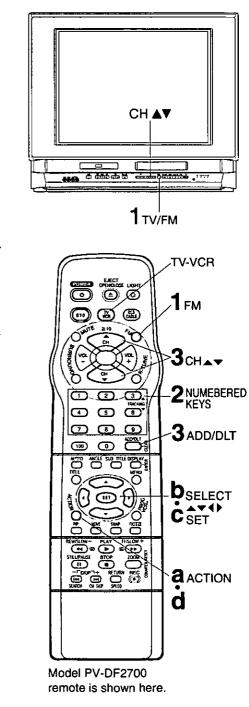
12:00PM

12:00PM



#### FM Radio is ...

This unit has an FM radio with built-in antenna, 9 station preset, and a band range of 87.5 ~ 108.1 MHz. You can even set the On-Timer (page 36) to wake up to your favorite radio station.



Continued on the next page...

FM 1 87.7MHz MEMORY: PUSH ADD/DLT KEY

	L

## Set the radio station.

â,

СН

ADD/DLT

CLEAR

1) Press CH AV to select the desired radio station. (Each press changes frequency 200 kHz.)

2) Press ADD/DLT to set.

#### Quick Station Scan

Hold down CH  $\blacktriangle$  or  $\nabla$  for a few seconds, then release to scan for FM stations in your area.

 To cancel, press CH ▲ or ▼ while in search mode.

**Display MAIN MENU.** 

**Display SET UP TV** 

#### To Make Corrections.

FM 1 87.7MHz

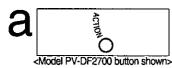
MEMORIZED

select station with a NUMBERED key, then do step 3 again. To exit FM mode.

press Vin on the remote or TV/FM on the unit.

## **FM ANTENNA Setup**

Make sure FM tuning is done correctly (See FM Radio Setup.)

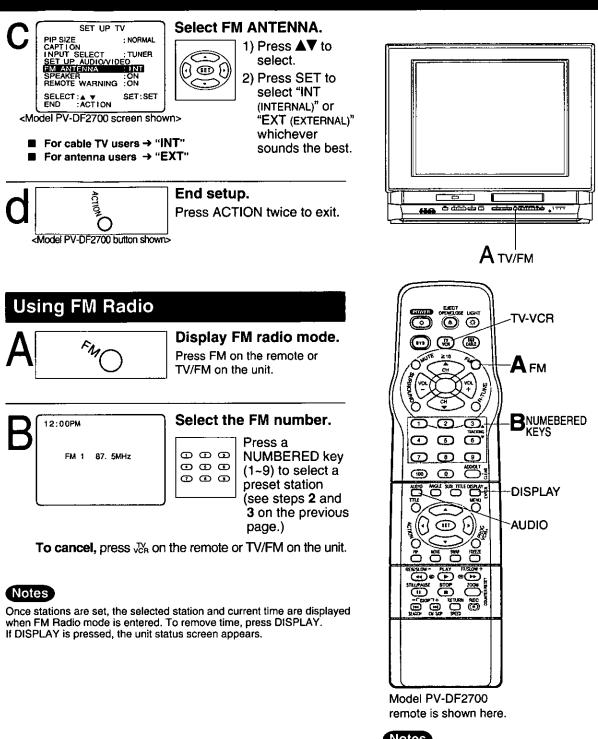


#### MAIN MENU SELECT:▲▼ ◀ I END :ACTION SET:SET **V** 4 b ĔND



Press ACTION.

1) Press ▲▼◀► to select "TV." 2) Press SET to display.



## Select Audio Mode for FM Radio

Select "STEREO" or "MONO."

♦STEREO ← MONO FM 1 87.7MHz

12:00PM

|--|

Press AUDIO repeatedly in FM Radio mode.

#### Notes

- FM radio cannot be recorded on a Video cassette.
- You cannot select FM Radio mode during playback or record, or while a blue back screen (PROG, ACTION, MENU) is displayed.
- You may get better reception by repositioning the unit.
- PIP function cannot be used while in FM mode.

35

# **TV Timer Features**

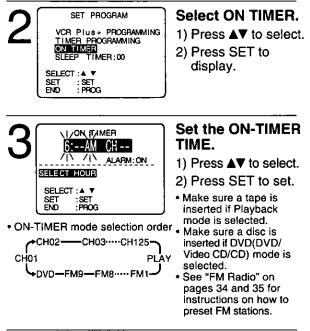
 Important: if a remote control button does not work when pressed, press the vor button on the remote and try the button again.

# **ON-TIMER** with Alarm

This unit can be set to automatically power on in one of 4 modes (TV, VCR Playback, FM radio, or DVD/Video CD/CD.) You can also combine the On-Timer with a one minute alarm that gradually increases in volume.

#### Display SET PROGRAM screen.

Press PROG/VCR+\*.





#### Set Alarm.

Press ▲▼ to select "ON" or "OFF."

#### When "ON" is selected,

an alarm will gradually increase in volume for one minute or until canceled by pressing any button (including VOL + -).

#### To Make Corrections,

use AV and  $\blacktriangleleft >$  to move back and correct as necessary.

#### Set ON TIMER.

Press PROG/VCR+.

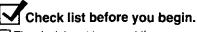
- "ON TIMER SET" is displayed.
- ON TIMER indicator lights on the unit.

#### To Cancel ON-TIMER set,

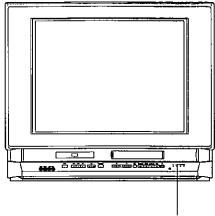
repeat steps 1 and 2. Then, in step 3 press ADD/DLT to clear the time. Now, press PROG/VCR+ to end. "ON TIMER END" appears on-screen for a few seconds.

#### Note

If no button on the remote or unit (including a button used to turn off the alarm) is pressed within 60 minutes after unit turns itself on, it will turn itself back off.



The clock is set to correct time.

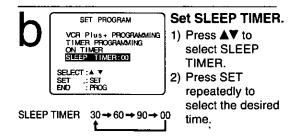


ON TIMER indicator

## **Sleep Timer**

This unit can be set for auto power off.

Display SET PROGRAM screen. Press PROG/VCR+.



To cancel, press SET repeatedly until 00 appears.

Return to normal screen.
 Press PROG/VCR+.

 Pressing DISPLAY with sleep timer set displays remaining time.

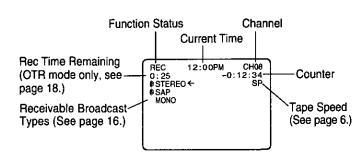
# **VCR Status & Clock Display**

# VCR Status & Clock Display

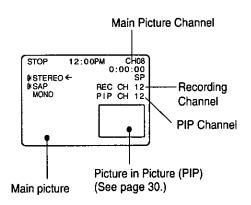
DISPLAY HILL

**To display or remove the overlay.** Press DISPLAY.

### Normal screen



### Picture in Picture (PIP) screen <For Model PV-DF2700 only>



#### POWER **( )** $\bigcirc$ 610 (Th) Œ С ഹ ூ Ð 6 $\odot$ ന ⓐ () 0 ADD/DLT DISPLAY Õ $^{-}$ SELECT <del>{•</del>} $\overline{}$ SET C PROG/ 1510 FE/52.04 VCR+ STELPAUSE (III) 2009 ŝ Õ <u>ک</u> Ð

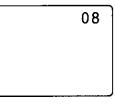
Model PV-DF2700 remote is shown here.

# Blue Screen Display

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with the "Weak Signal Display ON/OFF" (see page 45) set to "OFF," the TV screen will turn solid blue.

## **Channel & Function Display**

When a function button is pressed (PLAY, FF, etc.) or you change channels, the unit mode or channel number will be displayed.

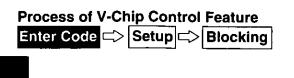


PLAY

# V-Chip Control Feature

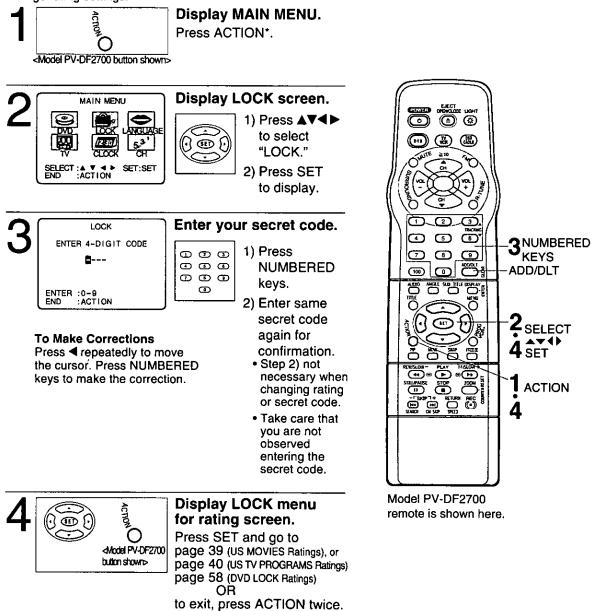
### V-Chip Control Feature is...

This unit has a built-in V-Chip Control which allows you to block unwanted TV usage based on US MOVIES and US TV PROGRAMS ratings.



## Enter Secret Code

A 4-digit code must be entered to view a blocked program or change rating settings.

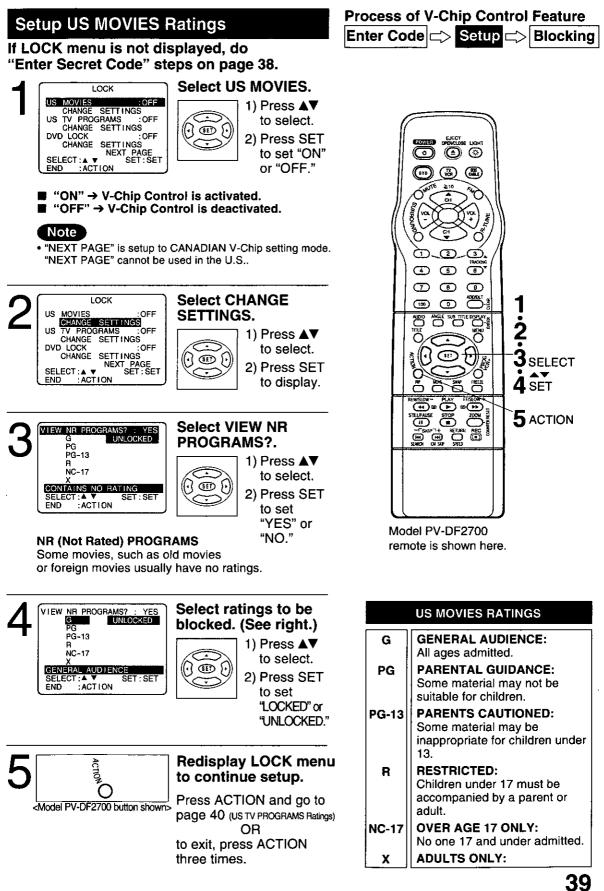


### Change your secret code

• You will need your current code. Do step 1 and 2 above. Enter current secret code. Press ADD/DLT to clear the code. Do step 3 and 4 to enter new code.

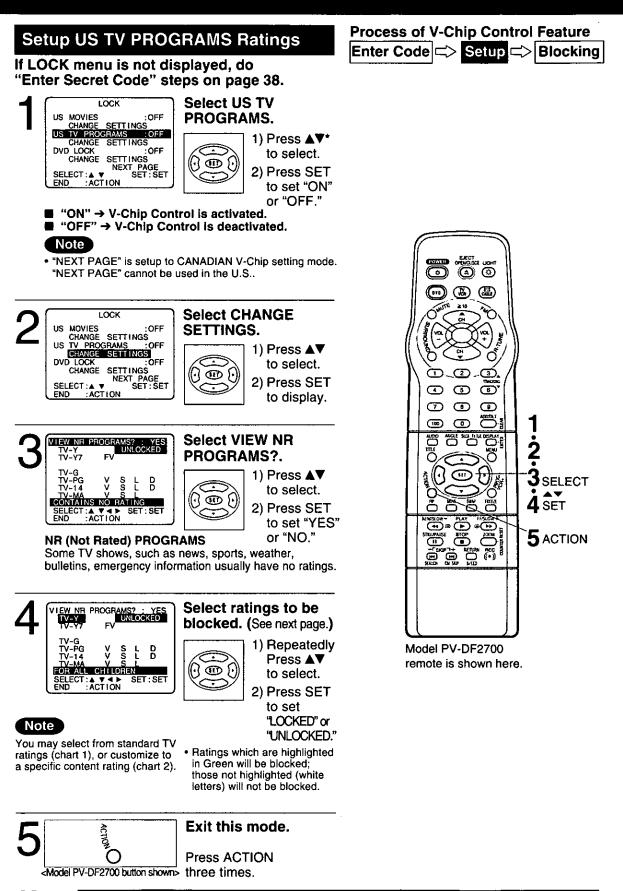


- DO NOT forget your secret code.
- Once ratings are set, restricted tapes or programs cannot be accessed unless the secret code is entered.



Advanced Operation

# V-Chip Control Feature (continued)



\*Important: if a remote control button does not work when pressed, press the TV button on the remote and try the button again.

US TV Chart	/ PROGRAMS RATINGS: 1	Process of V-Chip Control Feature Enter Code => Setup => Blocking
TV-Y	FOR ALL CHILDREN: Content specifically geared to young viewers ages 2-6.	
TV-Y7	FOR AGE 7 AND OLDER: May contain mild physical or comedic violence which may frighten children under 7.	Structure <when activated="" control="" is="" v-chip="">         CH08       • If V-Chip Control is</when>
TV-G	GENERAL AUDIENCE: Contains little or no violence, strong language, or sexual dialogue or situations.	PROGRAM RATING EXCEEDED RATING:PG-13 PROGRAM RATING EXCEEDED RATING:PG-13 PROGRAM RATING EXCEEDED RATING:PG-13 PROGRAM RATING EXCEEDED Will appear on a black background and sound is muted.
TV-PG	PARENTAL GUIDANCE: May contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.	• If DISPLAY is pressed, even when V-Chip control is
TV-14	PARENTS CAUTIONED: May contain sophisticated themes, sexual situations, strong language, and more intense violence.	SP deactivated, rating is RATING:PG-13 displayed on-screen.
TV-MA	MATURE AUDIENCE: May contain mature themes, profane language, graphic violence, and sexual situations.	<b>To Continue Viewing</b> <b>a Blocked Program</b> After entering your 4-digit secret code, go to step 1 on both pages 39 and 40 and select "OFF" to deactivate
Chart	/ PROGRAMS RATINGS: 2	V-Chip Control. • The US MOVIES and US TV PROGRAMS ratings you set will be retained in memory.

N

FV	Fantasy Violence
v	Violence
S	Sexual Situations
L	Adult Language
D	Sexually Suggestive Dialogue

lote <fc< th=""><th>or Model</th><th>PV-DF2700</th><th>only&gt; -</th></fc<>	or Model	PV-DF2700	only> -
--	----------	-----------	---------

- PIP function cannot be used when V-Chip control is active.
- When the PIP picture is blocked due to the V-Chip feature, the PIP screen turns black while the Main Picture continues to be displayed.

# **Tape Operation**

# **Commercial Skip**

By pressing the CM SKIP button in Play mode, you can skip over 1 to 3 minutes of recorded tape in just a few seconds.



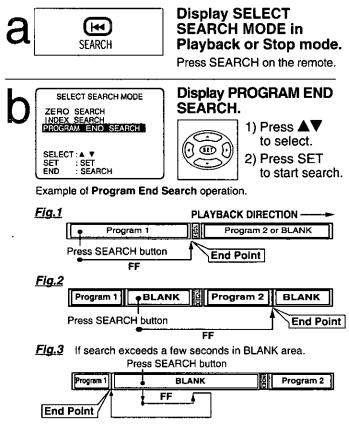
### Set Skip Time.

Press CM SKIP\* repeatedly to select skip time as follows.

► OFF → 1st Press → 2nd Press → 3rd Press → 1 min Skip 2 min Skip 3 min Skip

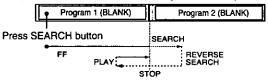
## Program End Search

Each time a recording is made, an invisible index mark is placed on the tape. This allows you to easily search for the end of your recordings to continue or start a new recording.



### If Program End Point is found.

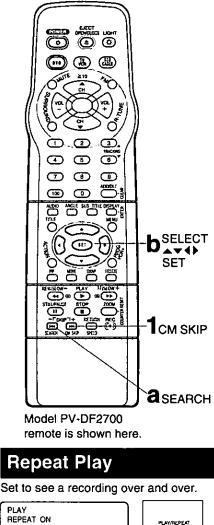
The search continues slightly beyond the end point, then search and reverse search and plays the last few seconds of the program and finally stop.



### Notes

- If Program End Search is started very close to an index mark, one program may be skipped over.
- If you want to cancel Program End Search, Press PLAY or STOP.

Your unit is equipped with several time saving features as well as convenient automatic functions which make tape operation easier than ever.



PLAY REPEAT ON

### To turn "ON,"

press PLAY/RÉPEAT on the unit repeatedly in Play mode to select "REPEAT ON".

#### To turn "OFF," repeat above to select "REPEAT OFF."

 Playback repeats when tape end is reached or unrecorded portion over 30 seconds is detected.

## Note

 For repeat play in DVD mode, see page 57.

42

#### VHS Index Search System is ... Each time recording is made, an invisible index mark is placed on the tape. When timer recordings are made, program index and information are also included. These index marks can be used to access or scan recordings. Direct Access (For Normal and/or Timer recordings) Go directly to the desired recording. Display SELECT (|••] SEARCH MODE screen. PLAY/REPEAT SEARCH Press SEARCH in Playback or Stop mode. If there are no Timer Recordings on the Program Index List, go to step 3. 0.000000 10.5 Display INDEX screen. SELECT SEARCH MODE 4 rew 4 ff ZERO SEARCH INDEX SEARCH PROGRAM END SEARCH Press ▲▼ to select (I) (II) "INDEX SELECT:▲ ▼ SET : SET SEARCH." END SEARCH 2) Press SET to display. ര (Ē) $\odot$ (圆) (PYD) ഭപ Select the recording INDEX number. Press 000 NUMBERED . . . 000 keys. O 1 ന (T) 5 $\odot$ To calculate number, see below. $\overline{\Omega}$ ▣ ന $\overline{m}$ Start search. INDEX 04 Press FF or REW. INDEX SEARCH 04 FF/SLOW + When search is • finished, playback (m)}•) begins. or Ē REW/SLOW -( »» 44 200% To calculate the Index Number Example 1: If you are watching recording 4 and you want to watch recording 2, enter "3" in step 3 and press REW. Model PV-DF2700 5 1 2 3 6 7 Δ remote is shown here. Example 2: If you are watching recording 2 and you want to watch recording 6, enter "4" in step 3 and press FF. Notes · Make each entry within 10 seconds, or

NOTE: 
 indicates start points of each recording.

Advanced Opera

**9**SELECT

SET

**4**REW

SEARCH

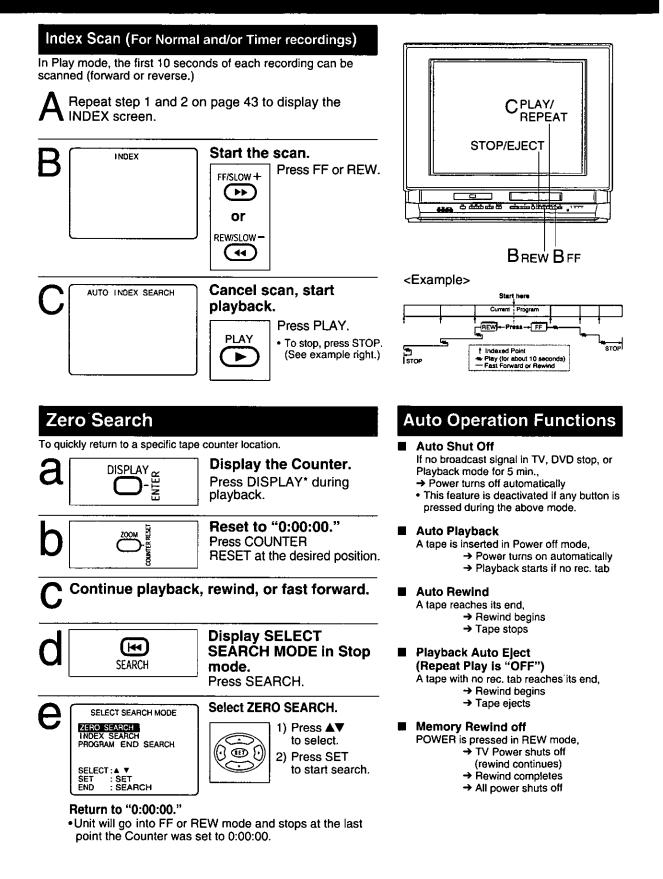
the Index Search mode will be canceled. If Direct Access or Index Scan search is

started very close to an index mark, that index mark may not be counted in the

search.

▲┳◀

# **Tape Operation (continued)**



# **Special VCR Features**

Important: if a remote control button does not work when pressed, press the very button on the remote and try the button again.



C 2

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(III)

F

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Model PV-DF2700 remote is shown here.

REC (D)

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0

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ACTION.

PLAY

REW

SEARCH-

3

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ADDIDLI

C

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-DISPLAY

SELECT

COUNTER

RESET

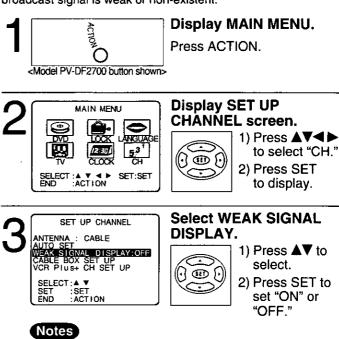
▲▼◀▶

SET

FF

## Weak Signal Display ON/OFF

When "ON" is selected, the picture is displayed even when a broadcast signal is weak or non-existent.



• "ON" = Picture is displayed regardless of signal condition, and may not always be clearly visible.

"OFF" = Screen turns solid blue when signal is absent or weak. . If unit is connected to equipment which has blue back feature, selecting "ON" will have no effect on the other equipment.

screen.

# Return to the normal

<Model PV-DF2700 button shown>

Press ACTION twice.

ಎ ಭಾಲ ದ ಮಾತಾಂದಗೊಂತ 110 REC

# VCR Lock

All operations are prohibited except Timer recording and tape eject. Useful for families with small children.

VCR I	OCK ACTIVATED	۵
	VCR LOCK OFF	



### To turn "ON."

In stop mode, hold down REC on the unit without a cassette inserted for 7 seconds.

To turn "OFF." Repeat above with or without cassette.

 VCR Lock is canceled automatically after about 24 hours if clock is set.

# Audio Features

# Select Audio Mode for Playback

Choose the type of sound track for playback.

## Playback the tape.

See the "Playback a Tape" section on page 17.

# 2

HIFI(L/R)← HIFI(L) HIFI(R) NORMAL

Select	uc

 This screen appears when you press AUDIO during playback.

### Select desired mode.

Press AUDIO\* repeatedly (each press within 5 seconds.)

 Please select "HIFI (L/R)", "HIFI (L)" or "HIFI (R)" to listen to stereo recordings in stereo sound. Select "NORMAL" for monaural sound.

#### With the proper audio mode setting, your unit can:

- record and playback MTS stereo broadcast (main language) in stereo Hi-Fi.
   Stereo sound is recorded on the left and right audio tracks and on the video portion of a tape.
- record and playback a monaural broadcast (main language) or SAP (Secondary Audio Program, usually in a second language) on the Hi-Fi tracks for better quality monaural sound.
- playback non-Hi-Fi tapes in monaural.

# Select Audio Mode for Recording

Choose the type of broadcast to be recorded.



Select Audio Mode for recording. Press AUDIO. Recording is always made in the audio mode selected in the "Select Audio Mode for TV Viewing" section on page 16.

## Do a recording.

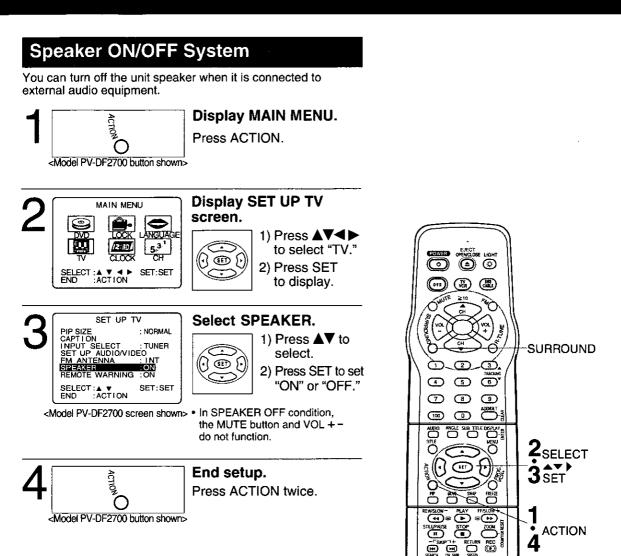
See the "Record On a Tape" section on page 18.

#### ത ۲ (Fa 3) **(1**) (5) ര Ð ത -(100) 0 Ő а $(\mathbf{m})$ ERSION 1 #5LDW-Œ •**( ••**) E (C) œ E

Model PV-DF2700 remote is shown here.



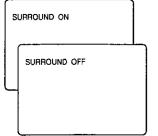
- When purchasing or renting prerecorded tapes, remember that only those recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback with monaural sound.
- To listen to the superior sound of Hi-Fi stereo playback, the unit AUDIO (L/R) jacks must be connected to a stereo amp and speakers.
- There may be a difference in audio level between Hi-Fi and normal audio playback.



## Surround Sound system

You can hear a deeper, 3-D sound effect using just the unit's two front speakers.

### Set Surround sound.



Press SURROUND. •"SURROUND ON" will be displayed.



To Cancel, press SURROUND.

### Notes

- Surround sound effect is not available for normal (mono) broadcasts.
- The surround effect (TV, VCR mode only) is not output to Audio Output L/R Connector.



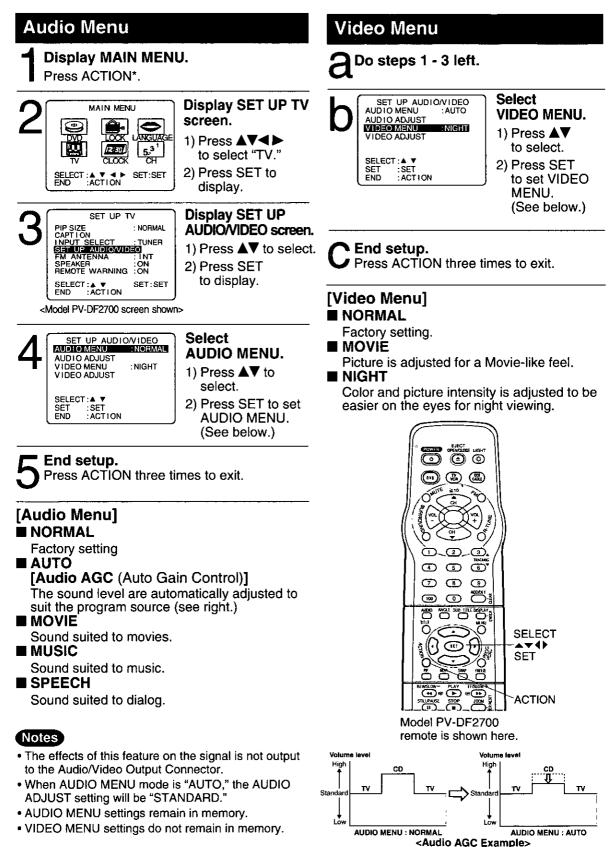
Model PV-DF2700

remote is shown here.

# Audio / Video Menu

Important: if a remote control button does not work when pressed, press the von button on the remote and try the button again.

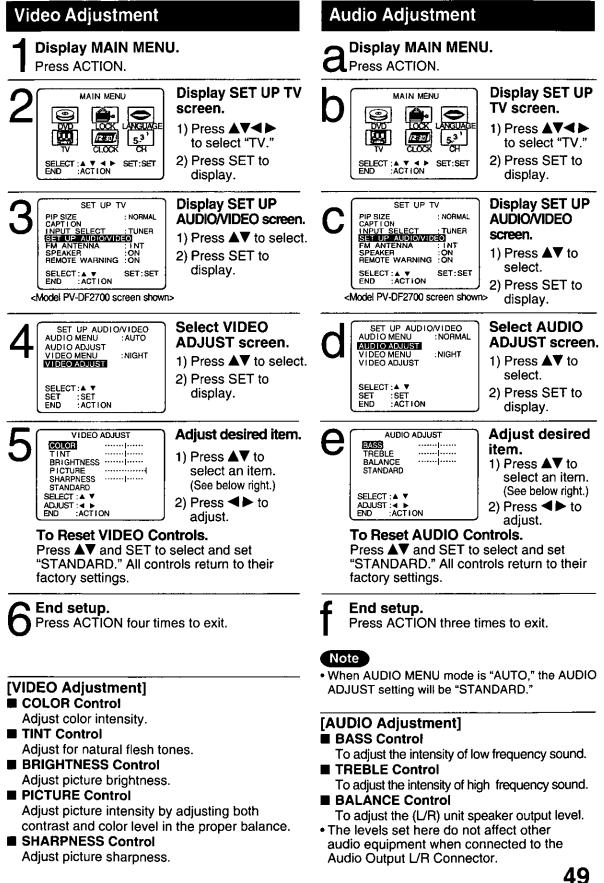
This feature allows easy setting of picture and sound suitable for each program source.



48

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

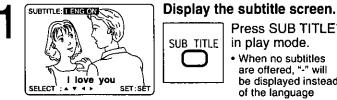
# Audio / Video Adjustment

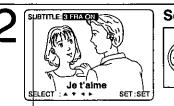


Advanced Operation

# Changing subtitle language (DVD only)

You can select a different subtitle language (if offered) than the one set at the Settings for DVD Operation. (See page 59.)





in play mode. When no subtitles are offered, "-" will be displayed instead

of the language number.

Press SUB TITLE\*

### Set the desired language.

D fe

 Press ▲▼ to select language. 2) Press ► (or ◄) to set.

3) Press ▲ (or ▼) to select "ON" or "OFF."

Number of subtitle language being played back.

To return to the normal screen, Press SUB TITLE.

### Notes

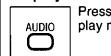
- · When closed captioning is used along with subtitles, they may overlap. If so, turn one function off. (See pages 32 and 33.)
- If, after several presses of the button the language does not change, language selection is not offered on the disc.
- Subtitles may not change to the selected language immediately.
- When power is turned on or disc is removed, subtitles revert to initial setting language. If the initial language is not recorded on the disc, the disc's priority language will appear.

## Changing audio soundtrack language (DVD only)

You can change the audio soundtrack language, selected at the Settings for DVD Operation, to a different language if available. (See page 59.)

(This operation works only with discs on which multiple audio soundtrack languages are recorded.)





Display the audio screen. Press AUDIO in play mode.

Audio attribute 1 type, sampling frequency, bit No. of the disc.





Select the desired language. Press ▲▼ to select

desired language.

To return to the normal screen. Press AUDIO.



## Check list before you begin.

Please read "Basic DVD Operation" on page 20.

### [Subtitle language (No.)] [Audio sound track language (No.)]

ENG	English
FRA	French
DEU	German
ITA	Italian
ESP	Spanish
NLD	Dutch
SVE	Swedish
NOR	Norwegian
DAN	Danish
POR	Portuguese
RUS	Russian
JPN	Japanese
СНІ	Chinese
KOR	Korean
MAL	Malay
VIE	Vietnamese
THA	Thai
*	Other

Change the No. by pressing ▲▼, and press SET.

[Audio attribute 1 type, sampling frequency, bit No. of the disc (see page 60)]

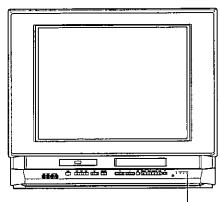
LPCM	96KHz 16b or 20b 48KHz 24b		Linear PCM disc
AC-3	1ch - 5.1ch		Dolby Digital (AC-3) disc
DTS	1ch - 5.1ch		DTS disc

## Notes

- If, after several presses of the button the language does not change, language selection is not offered on the disc.
- When power is turned on or disc is removed, language reverts to initial setting. If this language is not recorded on the disc, the language recorded will be heard.

Number of the audio soundtrack language being played back.

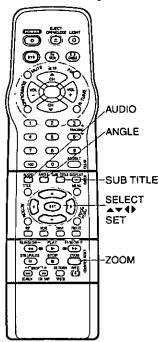
When () appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.



ANGLE indicator

### Notes

- The angle number can be set beforehand. so that the angle is switched whenever ANGLE lights.
- ANGLE lights on the unit when a scene recorded at different angles is detected.



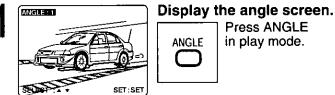
Model PV-DF2700 remote is shown here.

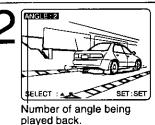
### Notes

- Closed captioning will not be displayed while Picture Zoom is used. To see subtitles, set the subtitle feature to ON (see page 50.)
- The subtitle position cannot be changed. The subtitle cannot be enlarged.
- The Zoom feature may not work with the menu screen.
- The picture zoom feature does not work with a Video CD.
- During picture zoom, "ZOOM1" or "ZOOM2" is displayed on the screen.

## Multiple angle viewing (DVD only)

DVDs may contain scenes shot from multiple camera angles allowing the same scene to be viewed at different angles. For these discs, the same scene can be viewed from each of these angles, if available, can be viewed using the ANGLE button.





### Select the desired angle.



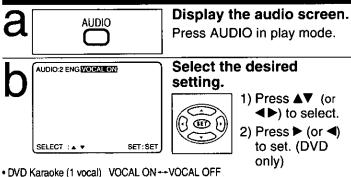
ANGLE

### Press ▲▼ to select.

Press ANGLE in play mode.

To return to the normal screen, Press ANGLE.

### Vocal selection for Karaoke discs (DVD/Video CD)



DVD Karaoke (2 vocals) VOCAL V1 + V2-+ VOCAL V1-+ VOCAL V2-+ VOCAL OFF

Video CD

ZOOM

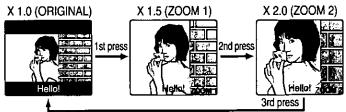
## Picture Zoom (DVD only)

You can enlarge specific portions of a picture and select the zoom ratio using the ZOOM button on the remote during DVD playback.

### Set Zoom size.

Press ZOOM repeatedly to change display as follows.

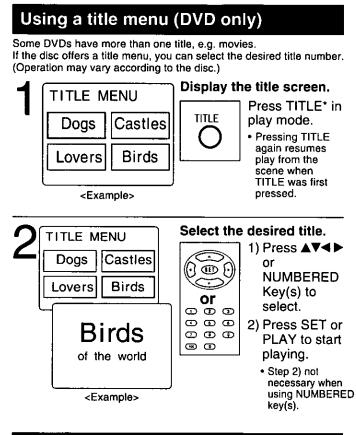
You can enlarge the center portion of the image to one of 2 magnifications.



■ Use the ▲ and ▼ buttons to move the position up and down.  $\blacksquare$  Use the  $\triangleleft$  and  $\triangleright$  buttons to move the position left and right.

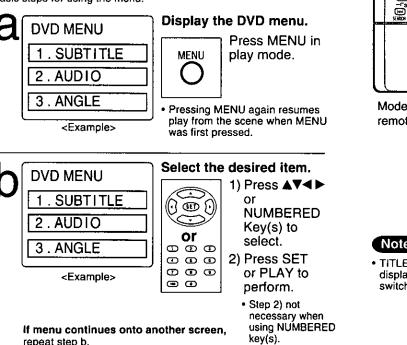
 Depending on the disc, operating the zoom may result in poor picture quality. In this case, turn zoom off.

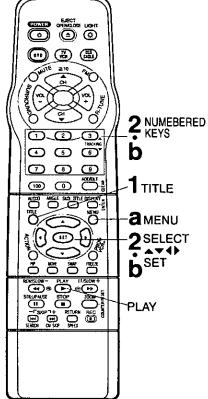
# Disc Operation (continued)



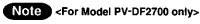
## Using a DVD menu (DVD only)

DVDs may offer a special menu. This menu may include guides to unique contents, audio/subtitle languages, etc. Although contents and operation may vary, the following steps show basic steps for using the menu.





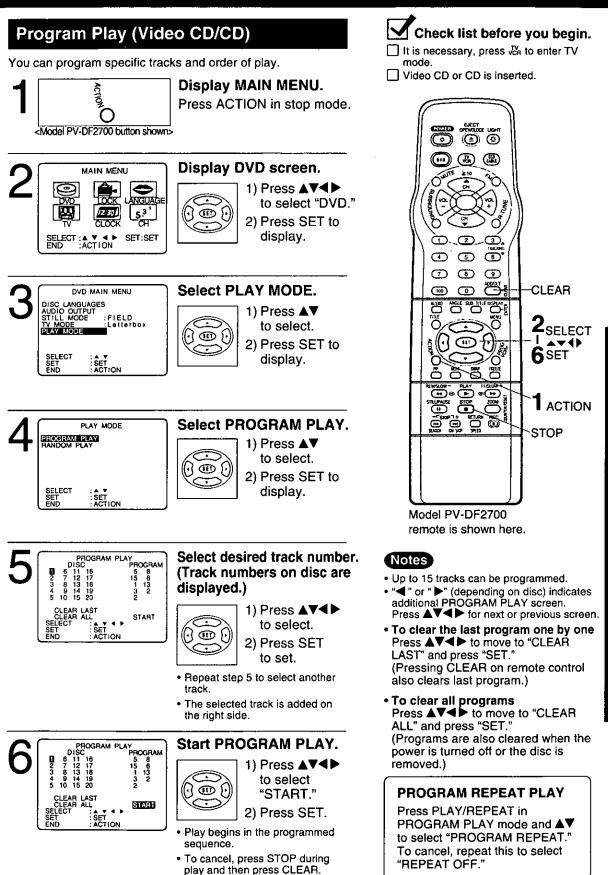
Model PV-DF2700 remote is shown here.



 TITLE MENU cannot be operated if displayed on the PIP. Press SWAP to switch it to Main Picture, then operate.

repeat step b.

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53

# **Disc Operation (continued)**

Important: if a remote control button does not work when pressed, press the very . DVD button on the remote and try the button again.

## Random Play (Video CD/CD)

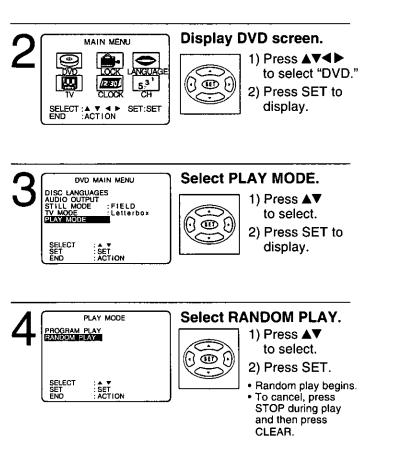
Tracks are played in a random order.

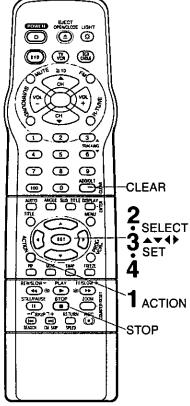


### **Display MAIN MENU.**

Press ACTION\* in stop mode.

<Model PV-DF2700 button shown>

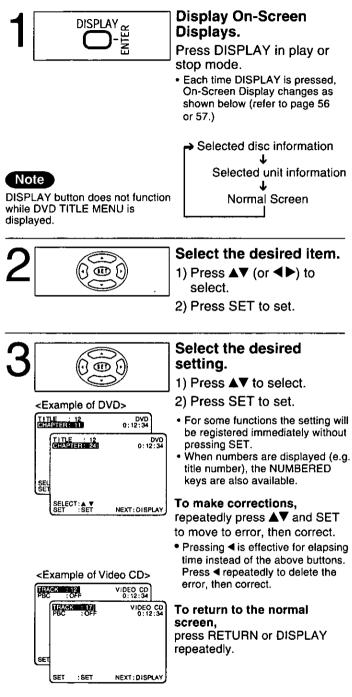


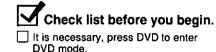


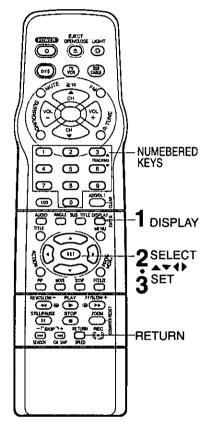
Model PV-DF2700 remote is shown here.

# **DVD Operation using On-Screen Displays**

When DISPLAY is pressed, On-Screen Displays show disc information (title/chapter/track number, elapsed playing time) and unit information (repeat play, play mode).







Advanced Operation

Model PV-DF2700 remote is shown here.

### Note

When DISPLAY button is pressed during playback of a Video CD with Playback control, the NUMBERED keys are not available on the displayed screen. In this case, press DISPLAY again to remove the displayed screen. • When 🚫 appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.

# **DVD** Operation using On-Screen Displays (continued)

## Detailed descriptions of each On-Screen Display

## Disc information screen (For DVD)

### 1. TITLE No.

 Change the No. by pressing ▲▼\* or the NUMBERED keys, and press SET.

### 2. Chapter No.

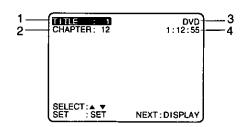
Change the No. by pressing ▲▼ or the NUMBERED keys, and press SET.

### 3. Disc currently being played

### 4. Elapsed playing time

The screen may be changed by selecting the elapsed time. • Change the elapsed time by pressing NUMBERED keys. (ex) 01: 23: 45  $0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5$ 

• This function does not work with some discs.



## Disc information screen (For Video CD/CD)

### A. Track No.

 Change the No. by pressing ▲▼ or the NUMBERED keys, and press SET.

### **B. Playback control ON/OFF**

[Video CD with playback control only]

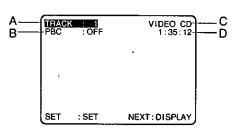
ON	Video CD menu play is displayed.

OFF Video CD menu play is cleared.

C. Disc currently being played

Video CD CD

D. Elapsed playing time





Track NO. and the elapsed playing time are not displayed during menu play of Video CDs with playback control.

 When () appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by the unit or the disc.

## Detailed descriptions of each On-Screen Display

## Unit information screen (For Unit)

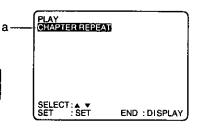
- Change the desired mode during play by pressing  $\pmb{\land \nabla},$  and press SET.

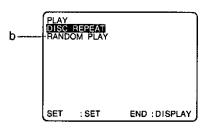
### a. Repeat Play

DVD	CHAPTER REPEAT	TITLE REPEAT	REPEAT OFF
Video CD/CD	TRACK REPEAT	DISC REPEAT	REPEAT OFF

b. Play mode [Video CD/CD only] (See pages 53 or 54.)

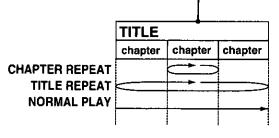
PROGRAM PLAY	program play
RANDOM PLAY	random play
-	normal play





### For your reference

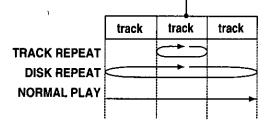
# CHAPTER/TITLE REPEAT PLAY (DVD) CURRENT PLAYBACK POSITION



### Note

• For repeat play in VCR mode, see page 42.

### • TRACK/DISC REPEAT PLAY (Video CD/CD) CURRENT PLAYBACK POSITION



# **DVD Lock Feature**

Important: if a remote control button does not work when pressed, press the vert DVD button on the remote and try the button again.

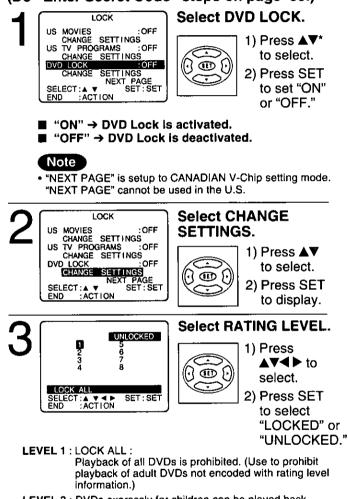
You can prevent playback of DVDs in a specific rating level which may be unsuitable for children.
Some DVDs are encoded with a rating level. If the disc rating is higher (stricter) than the one you preset, playback will be prohibited.

### Caution

Discs not encoded with rating level will play even if the jacket states it is for mature audiences. For these discs, the DVD Lock Ratings will not work.

## Setup DVD Lock Ratings (DVD only)

Perform DVD Lock setting in TV mode. Enter your secret code to display LOCK menu. (Do "Enter Secret Code" steps on page 38.)



LEVEL 2 : DVDs expressly for children can be played back.

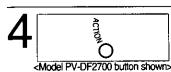
LEVEL 3 to 7 :

DVDs for general audiences/children can be played back. (DVDs for adults are prohibited.)

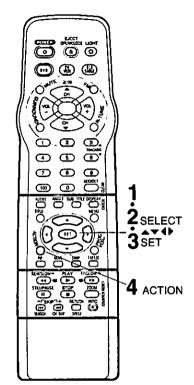
LEVEL 8 : NO LIMIT :

All DVDs can be played back. (Factory preset)

 Ratings which are highlighted in Green will be blocked; those not highlighted (white letters) will not be blocked.

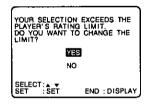


End setup. Press ACTION three times.



Model PV-DF2700 remote is shown here.

### <When DVD Lock is activated>



After DVD Lock is set and a blocked DVD is played, this message will appear.

The message may differ depending on the disc.

# To continue viewing a blocked program for now,

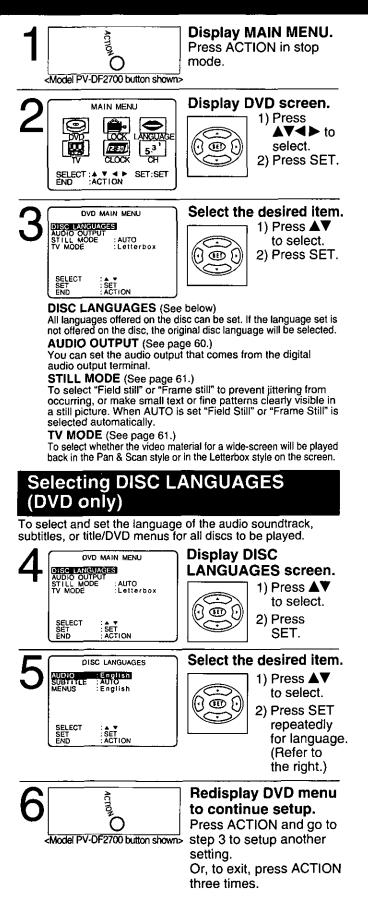
Press ▲▼ to select "YES" and SET. Then, enter your 4 digit secret code. When "NO" is selected, blocked programs cannot be viewed.

To change the DVD LOCK settings, after entering your secret code in step 3 on page 38, select "OFF" to deactivate DVD Lock or change the rating level.

58

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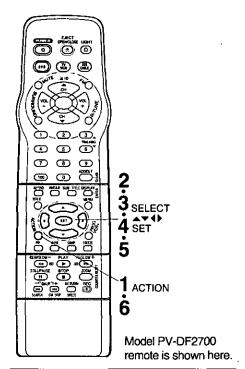
# **Settings for DVD Operation**



Once initial settings are done, they remain in memory (even after power off) until changed. This means the unit will always operate under the same conditions (especially DVDs) each time.

# Check list before you begin.

It is necessary, press v<sub>Ch</sub> to enter TV mode.



### "AUDIO" selections

To select the audio soundtrack language. English/French/Spanish (factory preset: English) Original: Original disc language OTHER \*\*\*\*: Other language selection\*1

### "SUBTITLE" selections

To select the subtitle language.

- AUTO: Same language selected for "AUDIO" (Factory preset)
  - If language set for "AUDIO" is used in playback, subtitles will not appear.
  - If another language is used during playback, the subtitles will appear in the language selected at "AUDIO" setup.

#### English/French/Spanish

OTHER \*\*\*\*: Other language selection\*1

#### "MENUS" selections

To select the language used in title menus or DVD menus.

English/French/Spanish (factory preset: English) OTHER \*\*\*\*: Other language selection\*1

### To enter OTHER \*\*\*\* code number,

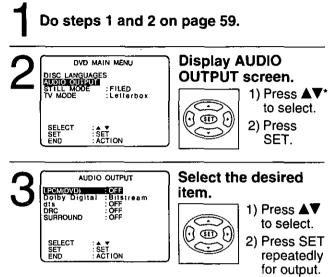
Press NUMBERED keys (Refer to the language codes on page 64).

\*1 If the selected language is not offered, the original disc language is selected. 59

# Settings for DVD Operation (continued)

# Selecting AUDIO OUTPUT

Select the digital output to be output from the optical digital audio output connector of the unit.



### "LPCM (DVD)" selections

- OFF: Linear PCM of less than 48 kHz/16 bit is output. When playing DVDs recorded in linear PCM of over 48 kHz/20 bit or 96 kHz, no digital audio is output, (Factory preset)
- PCM: When playing DVDs recorded in linear PCM of 48 kHz/ 20 bit/24 bit or 96 kHz, digital audio converted to 48 kHz/16 bit is output. (Digital output of PCM audio is restricted to 48 kHz/16 bit or below for copyright protection.)

### "Dolby Digital" selections

**Bitstream:** Dolby Digital (AC-3) bitstream (2ch-5.1ch) is output. (Factory preset) OFF: No output.

### "dts" selections

Bitstream: dts bitstream is output. (Factory preset) OFF: No output.

### "DRC (Dynamic Range Compression)" selections

- OFF: Normal audio range is selected. (Factory preset)
- For dynamic sound even at low volume, this is useful for ON: late-night listening. [Dolby Digital (AC-3) DVDs only].

### "SURROUND" selections

Surround Sound creates the effect of sound coming from nonexistent rear speakers even when only connected to a 2-channel stereo system.

OFF: No Surround Sound effect. (Factory preset)

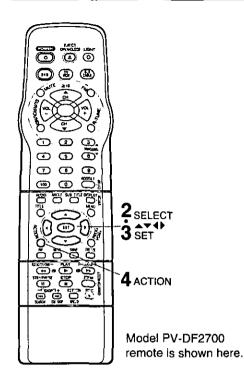
Surround Sound effect. ON:



### **Redisplay DVD menu** to continue setup.

Press ACTION and go <Model PV-DF2700 button shown> to step 2 to setup another setting.

> Or, to exit, press ACTION three times.



<b>T</b>	Recommended setting		
Type of amplifier to be connected	LPCM (DVD)	Dolby Digital	dts
No amplifier is connected	OFF	OFF	OFF
AV amplifier (with digital audio input connector) without Dolby Digital/dts decoder	PCM*1	OFF*2	OFF*2
AV amplifier including Dolby Digital decoder	PCM*1	Bitstream	OFF
AV amplifier including Dolby Digital/dts decoder	PCM*1	Bitstream	*3 Bitstream

- Make settings according to amplifier connected to optical audio output as shown in above table.
- When a dts decoder is not connected, to enjoy dts DVD, please select audio output other than dts at the dts DVD menu screen. Otherwise, there will be no sound from the unit speakers.
- \*1 Audio output from unit is converted to 48 kHz/16 bit in addition to audio from digital audio output. To enjoy high quality sound at 48 kHz/20 bit /24 bit or 96 kHz, connect the amplifier or decoder directly to the audio output connectors, not to the digital audio output connector. [Select "OFF" at the "LPCM (DVD)".]
- \*2 When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital (AC-3) or dts decoder, be sure to select "OFF" If "Bitstream" is selected, starting DVD play may cause such a high level of noise as to be harmful to your ears and damage the speakers.
- ٠3 When a dts decoder is connected, please select "Bitstream" in "dts". If "OFF" is selected, there will be no sound.

### Notes

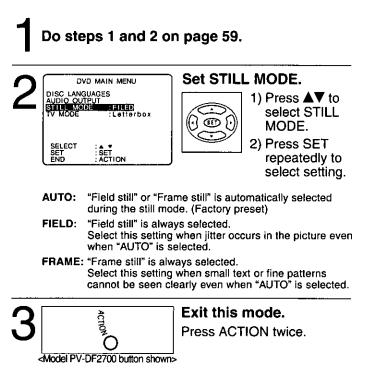
- Turn off other surround effects when using this surround effect.
- For optimum effect, the distance between the unit and the listener should be about 3 or 4 times the distance between the right and left front speakers.

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60

## Selecting STILL MODE

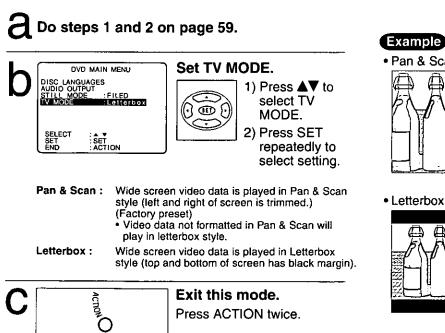
Set to reduce jitter in a displayed still picture or a motion picture.

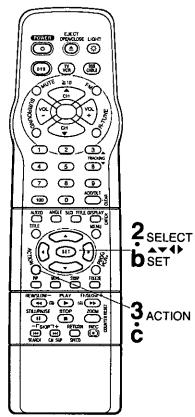


# Selecting TV MODE

<Model PV-DF2700 button shown>

Set the screen display style for wide-screen video material playback.





Model PV-DF2700 remote is shown here.

## Example

Pan & Scan (Factory preset)





61

# **Before Requesting Service**

Check the following points once again if you are having trouble with your unit.

Power	Correction
No power	<ul> <li>Completely insert Power Plug into an AC outlet.</li> <li>Set POWER button to ON.</li> </ul>
Power turns itself off	<ul> <li>Auto power-off (shutoff) occurs after about 5 min. in DVD mode with no operation, or if there is no broadcast signal in TV or Playback mode. Turn the power back on. (P.20, 44)</li> </ul>
Monitor	Correction
No picture or sound	<ul> <li>Make sure your antenna system (TV or CABLE), is correctly set. (P. 9)</li> <li>Completely insert Power Plug into an AC outlet.</li> <li>Set POWER button to ON.</li> </ul>
Poor picture with normal sound	Adjust BRIGHTNESS, SHARPNESS, and PICTURE controls in the SET UP Video Adjustment. (P.48, 49)
Poor sound with normal picture	Adjust VOLUME control. (P.15)
Poor TV reception	<ul> <li>Adjust SHARPNESS and PICTURE controls in the SET UP Video Adjustment. (P.48, 49)</li> </ul>
No color or poor color	<ul> <li>Adjust TINT and COLOR controls in the SET UP Video Adjustment. (P.48, 49)</li> </ul>
Ghost (multiple) images	Install a directional antenna.
TV programs cannot be watched	<ul> <li>Make sure the selected channel is in unit's memory. (P.14)</li> </ul>
Channel cannot be selected	<ul> <li>Only the channel begin recorded can be viewed on this unit.</li> </ul>
VCR	Correction
TV program cannot be recorded	<ul> <li>Make sure your antenna system (TV or CABLE), is correctly set. (P. 9)</li> <li>Make sure cassette record tab is intact. (P. 6)</li> </ul>
Timer recording cannot be performed	<ul> <li>Check that clock is set to current time and date.</li> <li>Make sure DSS/CABLE box (if used) is left on and tuned to channel to be recorded.</li> <li>Set recording Start/Stop times correctly. (P.22-23)</li> <li>Timer recording may not be performed or continued if a power interruption or more than 1 minute occurs before or during a Timer Recording, even after power is restored.</li> </ul>
No playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Adjust TRACKING control in either direction. (P.17)</li> <li>Try Head Cleaning. (P.8)</li> </ul>
VCR cannot be controlled	Make sure VCR LOCK is set to off. (P.45)
DVD/Video CD/CD	Correction
Play fails to start even when PLAY is pressed	<ul> <li>This unit cannot play discs other than DVDs, Video CDs and CDs.</li> <li>The disc may be dirty and require cleaning.</li> </ul>
Play starts but then stops immediately	Be sure disc is installed with label side up.
Picture is distorted during rapid advance or rapid reverse	The picture will be somewhat distorted at times: this is normal.
No rapid advance (or rapid reverse) play	<ul> <li>Some discs may have sections which prohibit rapid advance (or rapid reverse).</li> </ul>
Play does not start even when title is selected	Confirm the "DVD LOCK" setting. (P.58)
Audio soundtrack and/or subtitle language is not the one selected at the initial settings	<ul> <li>If the audio soundtrack and/or subtitle language selected at DVD initial settings does not exist on the disc, it will not be accessible.</li> </ul>
No subtities	<ul> <li>Subtitles appear only when available on disc.</li> <li>"OFF" is selected at the changing subtitle language. Select "ON" to display the subtitles. (P.50)</li> </ul>
Alternative audio soundtrack (or subtitle) language cannot be selected	<ul> <li>Alternative language cannot be selected with discs which do not contain more than one language.</li> <li>For some discs, alternative language cannot be selected with the AUDIO or SUB TITLE button. Try selecting it from the DVD menu if available.</li> </ul>
Angle cannot be changed	<ul> <li>This function is dependent on software availability. Even if disc has multiple angles, they may be recorded for specific scenes only (ANGLE indicator on unit lights up). (P.51)</li> </ul>

Remote Control	Correction
Unit cannot be controlled	<ul> <li>Aim Remote directly at the remote sensor on the unit. (P.74)</li> <li>Avoid any object blocking signal path.</li> <li>Inspect the remote batteries. (P.6)</li> <li>Make sure VCR LOCK is set to off. (P.45)</li> <li>Exposing unit remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul>
ACTION, PLAY, SELECT, SET POWER, etc. buttons cannot be selected	<ul> <li>Press v<sub>c</sub><sup>A</sup> for TV-VCR mode. (P.28)</li> <li>Press DVD for DVD mode. (P.28)</li> <li>Press FM for FM mode. (P.28)</li> <li>Check remote batteries.</li> </ul>
Miscellaneous	Correction
Video cassette cannot be inserted	<ul> <li>Insert the cassette window side up; record tab facing you.</li> </ul>
Video cassette cannot be removed	Completely insert Power Plug into an AC outlet.
Eject does not function or insertion cannot be done	<ul> <li>Turn the POWER off and then on, and try ejecting or inserting the tape again.</li> </ul>
Video cassette ejects when a recording is started, or the power is turned off for timer recording	Make sure cassette record tab is intact. (P.6)
The disc cannot be removed	<ul> <li>First, turn the unit power off. Then, prepare a rigid wire (e.g. an extended paper clip, etc.) and, applying moderate force, insert it straight into the hole at the base of the tray. The tray will eject a little. Now, pull the tray all the way out and remove the disc. (P.73)</li> </ul>
In Stop mode, the VCR motor (CYLINDER) continues to rotate	<ul> <li>To enable Quick Play mechanism, the VCR cylinder will rotate for about 5 minutes. This reduces response time from Stop to Play mode and from Play to Rewind Search mode.</li> </ul>

If you cannot resolve the problem, please call the Customer Satisfaction Center for product assistance at 201-348-9090.

To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262.) or send e-mail to : consumerproducts@panasonic.com

# Warning and Instruction Displays

These displays will alert you of a missed operation or provide further instructions.

OSD	Caution	Page		
• If no active channels are found for CHANNEL MEMORY USH CH UP KEY AGAIN • If no active channels are found for CHANNEL MEMORY				
PLEASE SET CLOCK BEFORE PROGRAMMING	<ul> <li>If you attempt to set or review a Timer Recording, VCR Plus+ System Programming or set the On-Timer and the Clock is not set</li> </ul>	12, 13		
CHECK CASSETTE RECORD TAB	• If you press REC, and a cassette is inserted with no record tab	6, 18		
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP during a Timer Recording			
• If you press PLAY, FF, REW, or REC without a cassette inserted				
PLEASE PREPARE FOR TIMER REC	<ul> <li>If the unit is not in Stop mode or a cassette with record tab is not inserted two minutes before a Timer Recording is about to begin</li> </ul>			
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL END: PLAY KEY	<ul> <li>If head cleaning becomes necessary while playing back a tape</li> </ul>			
VCR LOCK ACTIVATED	<ul> <li>If you press a function button other than STOP/EJECT or POWER while the unit is in VCR Lock mode</li> </ul>	45		
<ul> <li>LEASE CHECK THE DISC, AND FOR TAINS OR SCRATCHES ON DISC</li> <li>If you press PLAY, or the unit reads data from a stained or scratched disc in DVD mode. Also, if the type of disc is other than DVD, Video CD or CD</li> </ul>		7		
IT IS PROHIBITED TO COPY DVD/ VIDEO CD/CD TO VHS	If you press REC in DVD mode	18		

# Language Code List

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENUS" (see page 59).

Code	Language	Code	Language	Code	Language	Code	Language
6565	Afar	7079	Faroese	7678	Lingala	8375	Slovak
6566	Abkhazian	7082	French	7679	Laothian	8376	Slovenian
6570	Afrikaans	7089	Frisian	7684	Lithuanian	8377	Samoan
6577	Ameharic	7165	Irish	7686	Latvian, Lettish	8378	Shona
6582	Arabic	7168	Scots Gaelic	7771	Malagasy	8379	Somali
6583	Assamese	7176	Galician	7773	Maori	8381	Albanian
6588	Aymara	7178	Guarani	7775	Macedonian	8382	Serbian
6590	Azerbaijani	7185	Gujarati	7776	Malayalam	8385	Sundanese
6665	Bashkir	7265	Hausa	7778	Mongolian	8386	Swedish
6669	Byelorussian	7273	Hindi	7779	Moldavian	8387	Swahili
6671	Bulgarian	7282	Croatian	7782	Marathi	8465	Tamil
6672	Bihari	7285	Hungarian	7783	Malay	8469	Telugu
6678	Bengali; Bangla	7289	Armenian	7784	Maltese	8471	Tajik
6679	Tibetan	7365	Interlingua	7789	Burmese	8472	Thai
6682	Breton	7378	Indonesian	7865	Nauru	8473	Tigrinya
6765	Catalan	7383	Icelandic	7869	Nepali	8475	Turkmen
6779	Corsican	7384	Italian	7876	Dutch	8476	Tagalog
6783	Czech	7387	Hebrew	7879	Norwegian	8479	Tonga
6789	Welsh	7465	Japanese	7982	Oriya	8482	Turkish
6865	Danish	7473	Yiddish	8065	Panjabi	8484	Tatar
6869	German	7487	Javanese	8076	Polish	8487	Twi
6890	Bhutani	7565	Georgian	8083	Pashto, Pushto	8575	Ukrainian
6976	Greek	7575	Kazakh	8084	Portuguese	8582	Urdu
6978	English	7576	Greenlandic	8185	Quechua	8590	Uzbek
6979	Esperanto	7577	Cambodian	8277	Rhaeto-Romance	8673	Vietnamese
6983	Spanish	7578	Kannada	8279	Romanian	8679	Volapük
6984	Estonian	7579	Korean	8285	Russian	8779	Wolof
6985	Basque	7583	Kashmiri	8365	Sanskrit	8872	Xhosa
7065	Persian	7585	Kurdish	8368	Sindhi	8979	Yoruba
7073	Finnish	7589	Kirghiz	8372	Serbo-Croatian	9072	Chinese
7074	Fiji	7665	Latin	8373	Singhalese	9085	Zulu

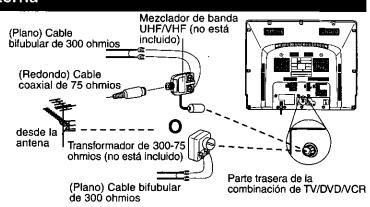
64

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

# Spanish Quick Use Guide/Guía para rápida consulta

## Conexión de la antena externa

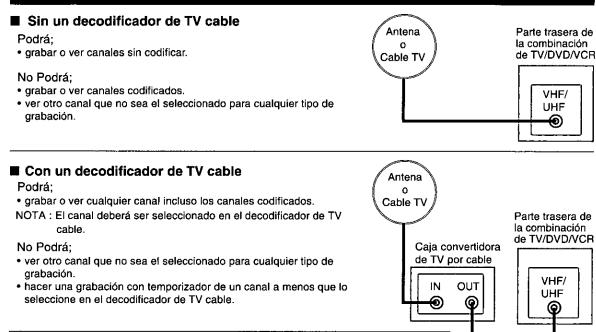
Desenganche la antena del televisor o de la videograbadora que tuviera anteriormente y conéctela a la parte trasera del registrador Combinación de VCR/TV, como se muestra en el diagrama. Si el sistema de su antena tiene conductores UHF y VHF separados, usted necesita un mezclador de banda UHF/VHF (no viene con el equipo.)



#### ADVERTENCIA:

Al utilizar cables coaxiales RF del "Tipo tuerca", solo debe apretarse con los dedos. Si se aprieta demasiado los cables pueden resultar dañados.

## Conexiones de TV cable



Para ver y grabar un canal codificado/ no codificado Sintonice el canal del Registrador de la combinación de VCR/TV en el canal de salida de la caja convertidora de televisión por cable (por ejemple el canal 3.) Después, seleccione en el decodificador de TV cable el canal que se quiera ver o grabar.

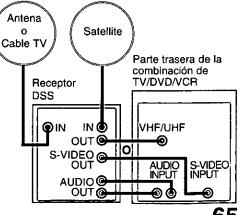
### Con un receptor DSS

#### Podrá;

grabar o ver cualquier canal incluso los canales codificados.
 NOTA : El canal deberá ser seleccionado en el receptor DSS.

#### No Podrá;

- ver otro canal que no sea el seleccionado para cualquier tipo de grabación.
- hacer una grabación con temporizador de un canal a menos que lo seleccione en el receptor DSS.
- NOTA : El receptor DSS debe estar apagado para ver programas desde un decodificador de TV cable o desde la antena. Consulte el manual del receptor DSS para más detalles.



For Your Information

# Spanish Quick Use Guide/Guía para rápida consulta



- 1 Oprima ACTION para que parezca el MENU PRINCIPAL.
- 2 Oprima ▲▼◀ ► para elegir "RELOJ." Luego, oprima SET para que aparezca la pantalla de la FIJAR RELOJ.
- 3 Oprima ▲▼ para elegir "MANUAL," y luego SET para que aparezca la pantalla de la FIJAR RELOJ.
- **4** Por favor continue con los pasos **b** y **c** de la instrucción anterior (Caso 1.)

decodificador de TV cable debe quedar encendido y

ajuste automático del reloj, debe de estar apagado. Si usa un toma de audio/video para conectar el

automático de reloj y ajuste automático de canal. Si por cualquier razón se cambiara la hora manualmente, no

se podrá realizar la corrección automática de la hora.

videograbador combinado.

sintonizando el canal PBS en el momento en que se apaga el

videograbador combinado y el decodificador de TV cable o el

sintonizador de TV satelital, deberá también conectar el cable coaxial RF para poder usar las funciones de ajuste

Si usa un sintonizador de TV satelital, para que funcione el

Por ayuda, Ilame al 1-800-211-PANA(7262) o envie e-mail a : consumerproducts@panasonic.com

## Operaciones básicas para la reproducción

#### Inserte un casete.

 El videograbador combinado se enciende automáticamente.

### Presione PLAY.

- La reproducción comienza automáticamente si el casete no tiene la lengüeta para prevención de grabación.
- Para encontrar una escena en particular Búsqueda hacia adelante → Presione FF Búsqueda hacia atrás → Presione REW
- Para ver una imagen fija (congelada) → Presione PAUSE/SLOW
- Para ver en cámara lenta → Presione SLOW+ o SLOW- en el modo de imagen fija
- Para ver imágenes cuadro a cuadro → Presione PAUSE/SLOW en el modo de imagen fija
- Para parar → Presione STOP
- Para rebobinar la cinta → Presione REW
- Para hacer avanzar la cinta rápidamente →
- Presione FF ■ Para expulsar la cinta → Presione EJECT en el control remoto o STOP/EJECT en el videograbador combinado

## Operaciones básicas para la grabación

- Inserte un casete con la lengüeta para prevención de grabado.
  - El videograbador combinado se enciende automáticamente.

#### Seleccione el canal.

Presione CH ▲▼ o las teclas numéricas correspondiente.

### Seleccione la velocidad de grabación.

#### Presione SPEED.

- SP = reproducción normal
- LP = reproducción larga
- SLP = reproducción super larga
- La velocidad seleccionada debe aparecer en la pantalla.

### Comience la grabación.

#### Presione REC.

- Para editar partes no deseadas de una grabación, presione PAUSE/SLOW para hacer una pausa durante la grabación.
- No podrá ver otro canal durante la grabación.
- Para parar → Presione STOP.
- El videograbador combinado deja de grabar a una hora prefijada. (Grabación de un toque) Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas.)

# Grabación con temporizador

## Exhiba FIJAR PROGRAMACION.

Presione PROG/VCR+.

FIJAR PROGRAMACION VCR Plus+ ITEMPORIZATION ENCENDIDO AUTOMATICO

#### TEMPORIZADOR-DORMIR:00 ELEGIR:▲ ▼ FIJAR :SET TERMINAR:PROG

#### Exhiba TEMPORIZADOR.

- Presione ▲▼ para seleccionar.
- Presione SET para exhibir.
- Si ya existe un programa en la memoria, presione ▲▼ y SET para seleccionar un número de programa sin usar.

B

grabación.
1) Presione ▲▼ para seleccionar.

Ajuste la fecha de

- 2) Presione SET o ◀► para ajustar.
- 1 31 = Grabación única
- DIARIO = a la misma hora de lunes a viernes
- SEMANAL = a la misma hora una vez a la semana

Fecha de hoy — 7 ▲/ ♥ Orden para elegir DIARIO SEMANAL SEMANAL SEMANAL (LUN) (DOM)

Repita el paso 3 para ajustar:

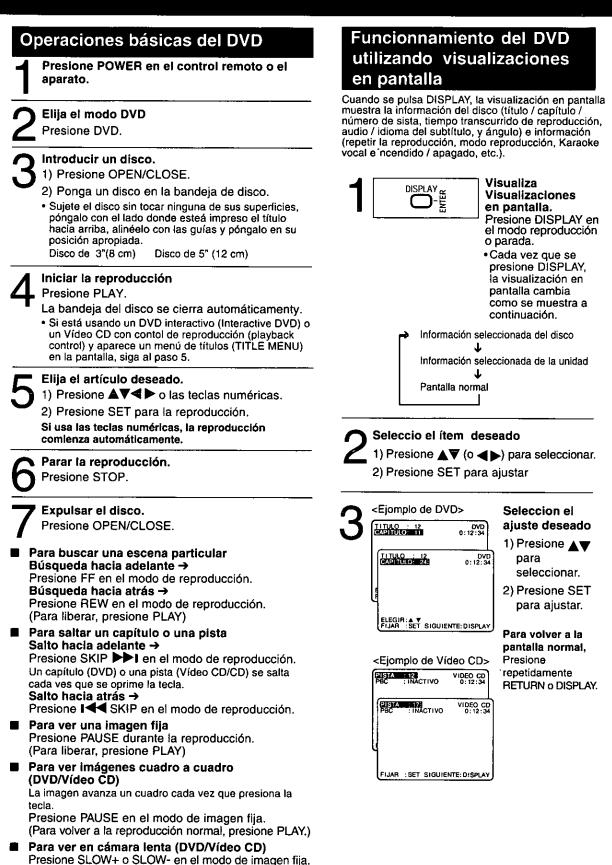
hora de comienzo, hora de parada, canal (o LINEA para una fuente exterior), velocidad (SP, LP, SLP)



### Salga de este modo.

- Presione PROG/VCR+ dos veces
- Si está usando un decodificador de TV cable, asegúrese que se encuentra en el canal deseado y que la alimentación queda conectada para grabar con temporizador.
- El indicador PROG TIMER se enciende en el videograbador combinado.

# Spanish Quick Use Guide/Guía para rápida consulta



68

(Para liberar, presione PLAY)

### Cambio del idioma de subtítulos [DVD solamente]

El idioma de los subtítulos seleccionado al hacer las fijaciones iniciales se puede cambiar por otro idioma diferente, si este se encuentra disponible.



Presione SUBTITLE durante la reproducción. Cuando no haya subtítulos

grabados, "-" se visualizará en lugar del número de idioma.



#### Seleccionar el idioma deseado.

- Presione ▲▼ para seleccionar idioma.
- 2) Presione 🕨 (o ┥) para ajustar.
- Presione ▲ (o ▼ ) para seleccionar "ON" o "OFF." 3)

Para voler a la pantalla normal, Presione SUB TITLE.

### Cambio del idioma de la pista de sonido [DVD solamente]

El idioma de la pista de sonido seleccionado al hacer las fijaciones iniciales se puede cambiar por otro idioma diferente, si éste se encuentra disponible.



Visualizar la pantalla AUDIO.

Presione AUDIO durante la reproducción.



### Seleccionar el idioma deseado.

Presione **AV** para seleccionar idioma.

Para voler a la pantalla normal, Presione AUDIO.

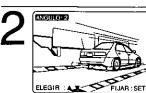
### Visión desde otro ángulo [DVD solamente]

Algunos discos DVD tienen escenas que hansido filmadas simultáneamente desde un número de ángulos diferentes. Con estos discos, la misma escena podrá verse desde cada uno de estos ángulos diferentes utilizando el botón ANGLE.



Visualizar la pantalla de ángulo.

Presione ANGLE durante la reproducción.



#### Seleccionar el ángulo deseado. Presione AV para seleccionar. Para voler a la pantalla

normal, pulsar ANGLE.

### Selección de vocal para los discos de Karaoke [DVD/Video CD]



(s) tecla (s) NUMBERED para seleccionar. 2) Presione SET.

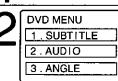
### Utilizacion de un menu de DVD [DVD solamente]

of the world

Algunos discos DVD tienen estructuras únicas de menús llamadas menús DVD. por ejemplo, los DVDs programados con un contenido complejo proporcionan menús guía, y los grabados con varios idiomas proporcinan menús para audio e idiomas de subtítulos. Aunque los contenidos de los menús DVD y la operación cambian de disco a disco, a continuación sé explica la operación básica cuando se utiliza esta característica.

Presione MENU durante la reproducción.

El menú de DVD introducido en el disco se visualiza ahora.



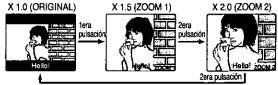
### Seleccionar el ítem deseado.

 Presione ▲▼ ◀ ► 0 la (s) tecla (s) NUMBERED para seleccionar. 2) Presione SET.

## Ampliación de la imagen [DVD solamente]

Durante la reproducción de un DVD, puede ampliar partes específicas de una imagen y seleccionar la relación de zoom usando el botón ZOOM del mando a distancia. Seleccione el tamaño de la imagen.

Presione ZOOM repetidamente para cambiar el tamaño de la imagen como se indica a continuación:



🖩 Use los botones 🛦 y 🛡 para desplazar la posición hacia arriba o hacia abajo. ∎Use los botones ≼y ⊳ para desplazar la posición hacia la izquierda o hacia la derecha.

69

# Spanish Quick Use Guide/Guía para rápida consulta



	jaciones iniciales
1	Visualizar MAIN MENU. Presione ACTION en el modo de parada.
2	<ul> <li>Visualizar la pantalla DVD.</li> <li>1) Presione ▲▼◀▶ para seleccionar.</li> <li>2) Presione SET.</li> </ul>
3	<ul> <li>Seleccionar el artículo deseado.</li> <li>1) Presione ▲▼ para seleccionar.</li> <li>2) Presione SET.</li> </ul>
	<b>DIOMAS DEL DISCO</b> Todos los idiomas ofrecidos en el disco pueden ser ajustados, Si el idioma ajustado no es ofrecido en el disco, se seleccionará el idioma original del disco.
	SALIDA DE AUDIO Puede usted ajustar la salida audio procedente del terminal de salida audio digital.
	<b>DETENER RASTREO</b> Para seleccionar "Campo fijo" o "Cuadro fijo" para prevenir inestabilidad o para permitir ver textos pequeños o patrones finos claramente en el modo de imagen fija.
	4 : 3 PREFERENCIA Para seleccionar si el material del vídeo para pantalla ancha será vuelto a reproducir en el estilo Pan&Scan o en el estilo Letterbox en la pantalla.
4	<ul> <li>Seleccionar el artículo deseado.</li> <li>1) Presione ▲▼ para seleccionar.</li> <li>2) Presione SET.</li> </ul>
5	Volver a visualizar el menú de DVD para continuar el ajuste.
J	Presione ACTION y pase al paso 3 para ajustar otro ajuste o, para salir, presione ACTION tres veces.
	elección de IDIOMAS DEL DISCO IVD solamente]
	eccione "AUDIO" s / Francés / Español : (Fijación de fábrica : inglés) Inl : Se seleccionará el idioma original de cada disco.

Eijaciones iniciales

OTRO \*\*\*\* : Se puede seleccionar el otro idioma.

#### Seleccione "SUBTITULO"

- AUTO : Se seleccionará el mismo que fue seleccionado en la preparación de "AUDIO", (Fijación de fábrica)
  - Si el idioma seleccionado en la preparación de "AUDIO" se utiliza durante la reproducción, los subtítulos no aparecerán.
  - Si se utiliza otro idioma durante la reproducción, los subtítulos aparecerán en el idioma
- seleccionado en la preparación de "AUDIO" Inglés / Francés / Español
- OTRO \*\*\*\* : Se puede seleccionar el otro idioma.

#### Seleccione "MENU"

Inglés / Francés / Español : (Fijación de fábrica : inglés) OTRO \*\*\*\* : Se puede seleccionar el otro idioma.

70

y luego presione ADD/DLT.

Por ayuda, Ilame al 1-800-211-PANA(7262) o envie e-mail a : consumerproducts@panasonic.com

## Selección de SALIDA DE AUDIO

### Seleccione "LPCM(DVD)"

- INACTIVO : Por el conector de salida de audio digital solamente sale PCM lineal de 48 kHz/16 bits. Durante la reproducción del DVD grabado en el PCM lineal de 48 kHz/20 bits/24 bits o 96 kHz, no sale audio digital. (Fijación de fábrica)
- PCM : Durante la reproducción del DVD grabado en el PCM lineal de 48 kHz/20 bits/24 bits o 96 kHz, sale audio digital convertido a 48 kHz/16 bits. (La salida digital de audio PCM está restringida a 48 kHz/16bits o menos para proteger los derechos de autor.)

#### Seleccione "Dolby Digital"

Bitstream: Sale un flujo de bíts Dolby digital (AC-3) (2ch-5.1ch). (Fijación de fábrica)

PCM : Sale PCM(2ch) de 48 kHz/16 bits.

#### Seleccione "dts"

#### INACTIVO : No salida.

Bitstream : Sale un flujo de bits dts. (Fijación de fábrica)

#### Seleccione "Dynamic Range Compression"

- INACTIVO : Se selecciona el margen de audio normal. (Fijación de fábrica)
- ACTIVO : Seleccione este ajuste para disfrutar de un sonido dinámico incluso a bajo volumen. Esto es muy útil para escuchar tarde durante la noche. [Esta función sólo se activa con DVDs Dolby Digital (AC-3).]

#### Seleccione "SURROUND"

El sonido envolvente virtual crea el efecto de sonido procedente de altavoces que parece que estén en la parte de atrás incluso cuando ha conectado sólo a un sistema estereo de 2 canales. [Sólo Dolby Digital (AC-3) DVD].

- INACTIVO : No efecto de sonido envolvente virtual (Fijación de fábrica)
- ACTIVO : Efecto de sonido envolvente virtual

## Selección de DETENER RASTREO

- AUTO : Durante el modo de imagen fija se seleccionarán automáticamente "Campo fijo" o "Cuadro fijo" (Fijacion de fabrica)
- CAMPO : Seleccione este ajuste cuando ocurra "distorsión" en las imagenes, incluso cuando se haya seleccionado "AUTO".
- CUADRO : "Cuadro fijo" es siempre seleccionado. Seleccionar este ajuste cuando no se puedan ver claramente texto pequeño o patrones finos incluso cuando esté seleccionado "AUTO".

## Selección de 4 : 3 PREFERENCIA

- Pan&Scan: Datos de la pantalla ancha de vídeo son reproducidos en el estilo Pan & Scan (la parte derecha e izquierda de la pantalla son recortadas). (Fijación de fábrica)
  - Datos de vídeo no formateados en Pan & Scan serán reproducidos en el estilo letterbox.
- Letterbox : Datos de la pantalla ancha de vídeo son reproducidos en el estilo Letterbox (la parte de arriba y abajo de la pantalla tienen un margen negro).

### Picture in Picture (imagen superpuesta) (PIP) [PV-DF2700 solamente]

La función de visualización Picture in Picture (PIP) le permite ver dos imágenes simultáneamente.

### Pantalla de visualización Picture in Picture (PIP)

A Seleccione PIP. Presione PIP.

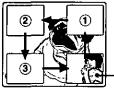


La pantalla PIP aparece sobre la pantalla de la imagen principal. — Imagen principal — Imagen superpuesta Para volver a la pantalla principal, presione PIP.

- La fuente de la imagen principal y la fuente de la imagen PIP pueden visualizarse al mismo tiempo. (Fuentes posibles: TV1 o TV2, DVD, VCR, LINE1 o LINE2).
- En el modo PIP, seleccione un canal y ajuste el volumen de la imagen principal solamente. Para seleccionar el canal y el nivel de volumen de la imagen PIP, primero presione SWAP para cambiar de la imagen PIP a la imagen principal; luego, seleccione el canal y el nivel de volumen.

### Mover pantalla (MOVE)

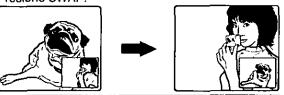
Puede mover la pantalla PIP a cuatro posiciones diferentes. Seleccione la posición de la pantalla PIP. Presione MOVE repetidamente para seleccionar la posición de la pantalla PIP.



-Posición inicial

## Cambiar de imagen (SWAP)

Puede cambiar la fuente de la imagen PIP y de la imagen principal. Cambie la fuente de imagen. Presione SWAP.



### Congelar la imagen en modo PIP (FREEZE)

Puede crear una imagen PIP estática de la imagen principal. Congele la imagen principal.





Imagen estática

Cambie la imagen PIP estática a una imagen en movimiento. Presione FREEZE.

 Mientras visualiza la imagen PIP, cada vez que presione el botón FREEZE, la imagen PIP cambiará entre una imagen estática y una en movimiento.

Para cancelar la imagen PIP, presione el botón PIP.

# **Location of Controls**

## **Remote Control Buttons**

EJECT	Page 17.				LIGH	T Page 72.
POWER	Page 12.			/	DSS CABL	E Page 28.
TV-VCR	Page 28.			V	F	M Page 34.
DVD	Page 20.				JME UP/DOW	N Page 15.
MUTE	Page 15.	_	UNUTE 210 AND		RAPID TUN	E Page 15.
CHANNE		Page 15.		TRACK	ING UP/DOW	N Page 17.
SURROU	IND I	Page 47.		#	ADD/DELET	E Page 14.
NUMBER	ED KEYS	Page 15.		X	SUB TITL	E Page 50.
ANGLE	Page 51.			1	DISPLAY	Pages 37, 55.
AUDIO	Page 16.				MEN	
TITLE	Page 52.				SELECT/SE	
ACTION	Page 14.				PROGRA VCR plus	~
PIP	Page 30.				FREEZ	
MOVE	Page 30.	!	MOVE SWAP		SWAP	Page 31.
PLAY	Pages 17, 20.	REW	5-0 0-1	ow+	FF/SLOW+	Pages 17, 20.
REW/SLC	OW- Pages 1	17, 20. STA	LIPAUSE STOP ZO		ZOOM	Page 51.
STILL/PA	USE Pages 1	17, 20.			STOP	Pages 17, 20.
SEARCH	/SKIP- Pages 2		ARCH CM SKIP SPEED	$\rightarrow$	REC	Page 18.
CM SKIP	/SKIP+ Pages 2	20, 42.		入	RETURN	Page 20.
			$\sim$			

<Model PV-DF2700 remote is shown here.>

### Universal Light Tower® Illuminated Remote Control

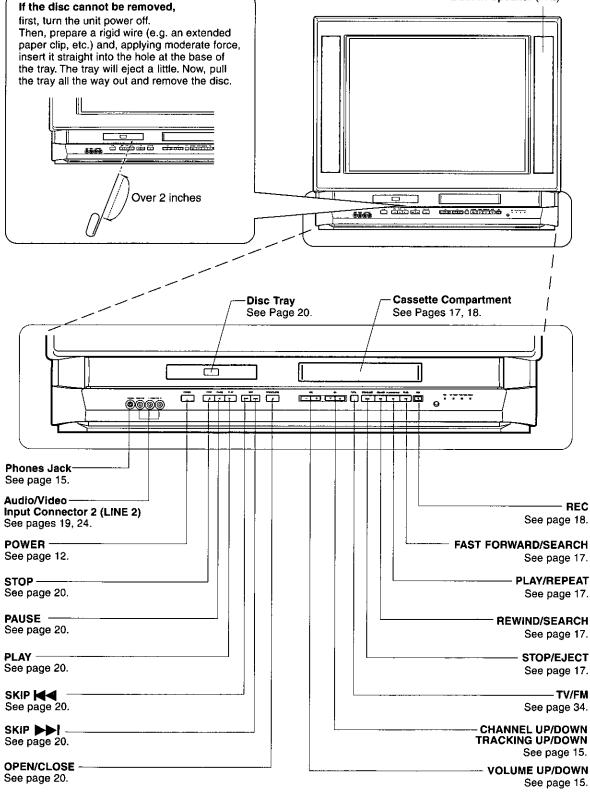
### LIGHT button:

When LIGHT is pressed, (DVD,  $\frac{TV}{VCR}$ , DSS/CABLE, CH UP/DOWN, VOL UP/DOWN) buttons will light for 5 seconds for easy button location. If no button is pressed in 5 seconds, the light goes out to conserve the battery.

### **EJECT** button:

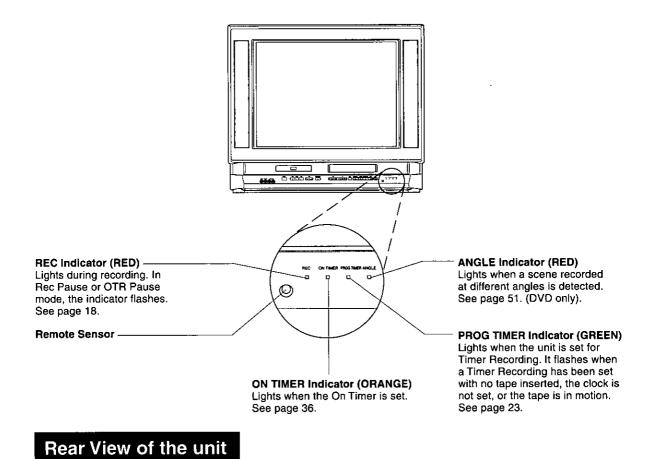
When this button is pressed in TV-VCR mode, the tape is ejected. This button is inoperative if pressed during recording. If pressed in DVD mode, the disc tray opens or closes.

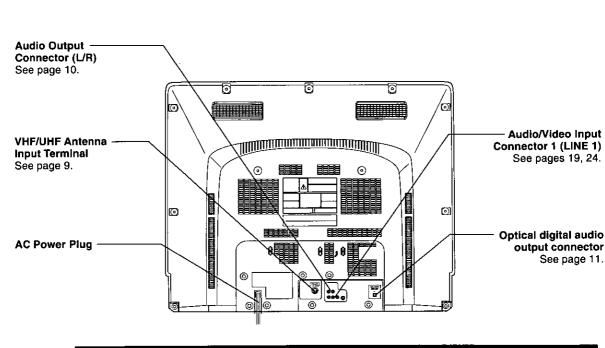




# **Location of Controls**

## Indicators on the Front Panel





# **Service Center List**

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

**1-800-211-PANA (7262)**, Monday-Friday 9 am-9 pm Saturday-Sunday 9 am-7 pm, EST. or send e-mail to : 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, MasterCard, Discover Card, American Express, Check)

### Factory Servicenters Locations

CALIFORNIA 6550 Katella Avenue Cypress, CA 90630

800 Dubuque Avenue S. San Francisco, CA 94080

20201 Sherman Way Suite 102 Canoga Park, CA 91306

3878 Ruffin Road Suite A San Diego, CA 92123

COLORADO 1640 South Abilene Street Suite D Aurora, CO 80012

FLORIDA 3700 North 29th Avenue Suite 102 Hollywood, FL 33020 GEORGIA 8655 Roswell Road Suite 100 Atlanta, GA 30350

ILLINOIS 9060 Golf Road Niles, IL 60714

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

MARYLAND 62 Mountain Road Glen Burnie, MD 21061

MASSACHUSETTS 60 Glacier Drive Suite G Westwood, MA 02090 MICHIGAN 37048 Van Dyke Avenue Sterling Heights, MI 48312

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

OHIO 2236 Waycross Road Civic Center Plaza Forest Park, OH 45240

PENNSYLVANIA 2221 Cabot Blvd West Suite B Langhorne, 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 Aiea, 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 May 2000

# **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 Infantería, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

## PANASONIC Video Products Limited Warranty

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

PRODUCT	PARTS	LABOR	SERVICE	CONTACT NUMBER
CAMCORDER	ONE (1) YEAR, EXCEPT CCD IMAGE SENSOR	NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
	CCD IMAGE SENSOR - SIX (6) MONTHS	NINETY (90) DAYS		
VCR	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
A/V MIXER	ONE (1) YEAR	NINETY (90) DAYS	Carry-In or Mail In	1-800-211-PANA(7262)
MONITOR- VCR/DVD	ONE (1) YEAR, EXCEPT CRT CRT-TWO (2) YEARS	NINETY (90) DAYS CRT-NINETY (90) DAYS	Carry-In: 21" CRT and Smaller	1-800-211-PANA(7262)
Combination			In-home or carry-in: 22" CRT and Larger	

<u>Batteries</u> (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.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Service Directory. Or call toll free 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.

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