

Omnivision WHS

# Panasonic®

nitial Setu<sub>l</sub> Connectior

Basic Operation

Operation

Operation

Information

For You

DVD/VCR DECK Operating Instructions Model No. PV-D4761



Connections and Initial Setup Procedures are on pages 12 to 17.











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

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.)

LSQT0453A

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

# **Important Safeguards and Precautions**

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

#### INSTALLATION

#### 1 POWER SOURCE CAUTION

Operate only from a power source indicated on the unit or in this manual. If necessary, have your Electric Utility Service Company or Video Products Dealer verify the power source in your home.

#### 2 POLARIZED OR GROUNDING PLUG

As a safety feature, this product comes with either a polarized power cord plug (one blade is wider than the other), or a three-wire grounding type plug.

#### POLARIZED PLUG CAUTION:

This plug will only fit into an outlet one way. If you cannot fully insert the plug, try reversing it. If it still will not fit, have an electrician install the proper wall outlet. Do not defeat the safety feature by tampering with the plug. <u>GROUNDING PLUG CAUTION:</u>

This plug will only fit into a three-hole grounding outlet. If necessary, have an electrician install the proper outlet. Do not defeat the safety feature by tampering with the plug.

#### 3 POWERCORD

Make sure power cords are routed so that they are not likely to have anything rest on them, roll over them, or be in the way of walking traffic. If an extension cord is used, make sure it also has either a polarized or grounded plug and that the cords can be securely connected. Frayed cords, damaged plugs, and damaged or cracked wire insulation are hazardous and should be replaced by a qualified service technician.

Overloaded outlets and extension cords are fire hazards and should be avoided.

#### 4 DO NOT BLOCK VENTILATION HOLES

Ventilation openings in the cabinet release heat generated during operation. If they are blocked, heat build-up inside the unit can cause failures that may result in a fire hazard or heat damage to cassettes or discs.

For protection, follow these rules:

- a. Never cover ventilation slots or the unit while in use, or operate the unit when placed on a bed, sofa, rug, or other soft surface.
- b. Avoid built-in installation, such as a book case or rack, unless proper ventilation is provided.

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

Do not place the unit over or near heater or radiator, in direct sunlight, inside closed vehicles, in high temperature [over 104°F (40°C)], or in over 75% humidity. If the unit is suddenly moved from a cold place to a warm one, moisture may condense in the unit and on the tape causing damage. Never subject the unit to vibration, impact, or place it so that the surface is titled as internal parts may be seriously damaged.

#### 6 TO AVOID PERSONAL INJURY

- Do not place unsecured equipment on a sloping surface.
- Do not place this unit on any support that is not firm, level, and adequately strong. The unit could fall causing serious injury to a child or adult and damage to the unit.
- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



### OUTDOOR ANTENNA INSTALLATION

1 SAFE ANTENNA AND CABLE CONNECTION If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static\_charges

and voltage surges. Section 810 of the National Electrical Code, ANSI/NFPA 70 (in Canada, part 1 of the Canadian Electrical Code) provides information with respect to proper grounding of the mast and supporting



structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

2 KEEP ANTENNA CLEAR OF HIGH VOLTAGE POWER LINES OR CIRCUITS An outside antenna system should be located well away from power lines, electric light or power circuits and where it will never come into contact with these power sources if it should happen to fall. When installing an outside antenna, extreme care should be taken to avoid touching power lines, circuits or other power sources as this could be fatal. Because of the hazards involved, antenna installation should be left to a professional.

#### USING THE UNIT

If the unit has been in storage or moved to a new location, refer first to the INSTALLATION section of these safeguards.

- 1 KEEP THE UNIT AWAY FROM WATER OR MOISTURE OF ANY KIND.
- 2 IF EQUIPMENT IS EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT, unplug the unit and have it inspected by a qualified service technician before use.

#### 3 DURING AN ELECTRICAL STORM

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

#### 4 WHEN THE UNIT IS PLUGGED IN

- Never expose the unit to rain or water. DO NOT OPERATE
  if liquid has been spilled into the unit. Immediately unplug the
  unit, and have it inspected by a service technician. Fire and
  shock hazards can result from electrical shorts caused by
  liquid contact inside.
- Never drop or push any object through openings in the unit. Some internal parts carry hazardous voltages and contact can cause electric shock or fire hazard.
- Do not put any foreign object on the disc tray.
- Avoid placing the unit directly above or below your TV set as this may cause electrical interference. Keep all magnets away from electronic equipment.

#### 5 USING ACCESSORIES

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

#### **6 CLEANING THE UNIT**

Unplug the unit. Then, 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 the 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 THIS PRODUCT YOURSELF

If, after carefully following the detailed operating instructions, this product does not operate properly, do not attempt to open or remove covers, or make any adjustments not described in the manual. Unplug the unit and contact a qualified service technician.

#### 2 IF REPLACEMENT PARTS ARE REQUIRED

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

3 HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK After any service or repairs to the unit, request the service technician to conduct a thorough safety check as described in the manufacture's service literature to ensure that the unit is in safe operating condition.

# 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 appareil à la pluie ou à une humidité excessive.

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



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



This symbol 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.

### 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 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 YOUR SELF, 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 part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when operated in a residential environment. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, use the equipment in another location and/or utilize an electrical outlet different from that used by the receiver.

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

### 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.

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

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

### **Region Management Information:**

This DECK 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 DECK, this DECK cannot play this disc.



# Congratulations

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

- Date of Purchase
- Dealer Purchased From \_
- Dealer Address \_
- Dealer Phone No. \_\_\_\_\_
- Serial No.

### Accessories

□ Remote Control LSSQ0303





RF Coaxial Cable VJAS0196



To order accessories, call toll free 1-800-332-5368.

### Loading the Batteries



### □ Battery replacement caution

- Do not mix old and new batteries.
- Do not mix alkaline with manganese batteries.

### Disc formats supported by this DECK

DECK can play back discs bearing any of the following marks:

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

is a registered trademark.

### **Disc Handling**

### Handling precautions

- Only hold disc by edges as shown below. 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 property placed





### 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, radiator, etc.).

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# **DECK & Cassette Information**

## **Head Cleaning**

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

### Video Head Clog Sensor

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

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

- Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)
- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest Factory Service Center or authorized Service Center (see p. 56).

### **Built-in Head Cleaner**

A clean video head helps produce a clear picture.

So, we have equipped your DECK with a built-in, non-chemical head cleaning system that helps prevent clogging of the video heads. Cleaning is performed each time you load or unload a video cassette.

 This feature is preventative only, If your video heads are seriously clogged, consider the use of a chemical non-abrasive head cleaning kit or take your DECK to a Service Center.

## **Cleaning DECK**

Use a soft cloth or dusting attachment of a vacuum cleaner to remove dust from the ventilation holes on the back sides and bottom of the cabinet. Plastic surfaces are easily scratched and can be marred by alcohol and various solvents. Avoid excessive use of oil-based furniture polishes since the materials used in the cabinet will accumulate more dust. We recommend using a nonabrasive, antistatic cleaner and polisher.

## Features for a Quality Picture (VCR)

### Digital Auto Picture

Automatically controls the video output signal for less noise depending on the tape condition.

**Digital Auto Tracking** 

Continuously analyzes the signal and adjusts for optimum picture quality.

### Manual Tracking Control

#### (to reduce picture noise)

Use during Playback and Slow Motion mode to reduce picture noise.

Press CH (TRÁCKING) ▲/♥ buttons on the remote control or on DECK until the picture clears up. To return to Auto Tracking, press POWER off, then on again a few seconds later.





### V-Lock Control (to reduce picture jitter)

In Still mode, CH (TRACKING) ▲/▼ buttons operate as a V-Lock control.



Cover the hole with cellophane tape.

Prevent Accidental Tape Erasure

Break off the tab to

Record Tab

Screw driver

prevent recording.

To record again

### **Record/ Playback Time**

Only use tapes with the VHS mark in this DECK.

Tape Speed	Type of Video Cassette		
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 (SuperLongPlay)	3 Hours	6 Hours	8 Hours



### Specifications

**Power Source:** 120 V AC, 60 Hz **Power Consumption:** Power On: Approx. 32 watts, Power Off: Approx. 4 watts Video Signal: EIA Standard NTSC color Video Recording System: 4 rotary heads helical scanning system Audio Track: 1 track (Normal), 2 channel (Hi-Fi Audio Sound) Tuner: Broadcast Channels: VHF 2 ~ 13. UHF 14 ~ 69 CABLE Channels: 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 Input/Output Terminal: Audio/Video Line Input/Output, RF Input/Output Input Terminal: Audio/Video Line Input (Front) **Output Terminal:** S-VHS Output (DVD only), Component Video Output (DVD only) Audio Output 2 (L), (R) **Operating Temperature:** 5 °C ~ 40 °C (41 °F ~ 104 °F) **Operating Humidity:** 10 % ~ 75 % 6.9 kg (15.2 lbs). 430 (W) x 118 (H) x 364 (D) mm Weight: Dimensions: 16-15/16" (W) x 4-5/8" (H) x 14-5/16" (D) **Discs Plaved** (1) DVD-VIDEO Disc (12 cm) single-sided single-layer 5" (one layer per side) (12 cm) single-sided double-layer 5" (12 cm) double-sided double-layer 3" (8 cm) single-sided single-layer 3" (8 cm) single-sided double-layer 3" (8 cm) double-sided double-layer 5" (12 cm) disc (2) Compact Disc 3" (8 cm) disc (CD-DA, VIDEO CD) **Digital Audio Output:** Digital Optical Connector Pickup: Wave length: 655 nm (DVD), 790 nm (Video CD/CD) Laser power: CLASS II

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

### Definition of Terms (DVD)

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 up on DECK 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 DECK also supports Video CDs with playback control (version 2.0).	
This product incorporates convight protection technology that is protected by method claims of		

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.

# **Location of Controls**



Light button: When Light button is pressed, (DVD, TV, VCR, PLAY, STOP, REW, FF) buttons will light up 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 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.

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## Front View of DECK



# Location of Controls (continued)



### The following table shows the status of the output jacks when in VCR or DVD mode.

	Video Output Audio Out 1 Audio Out 2	Component Video Output	S-Video Out
VCR	YES	N/A	N/A
DVD	YES	YES ← Switc	hable → YES

 Note
 ACTION and PROG/VCR+ buttons on the remote are not available when using Component Video Output and S-Video Out. Please set TV to either RF INPUT or VIDEO INPUT, and then press ACTION or PROG/VCR+.

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# **Displays (On Screen & Multi Function)**

## **On Screen Displays (VCR)**

the recording speed when SPEED is pressed.



When a function button is pressed, e.g. PLAY, or you change channels, a 4 second display appears first in large and then small characters.

# Blank Tape/ No Video Signal Indication

Whenever a blank section of a tape comes up in Play mode, or when the selected channel has no broadcast signal with Weak Signal Display Feature (p. 37) set to OFF, the TV screen will turn solid blue.

VCR Status & Clock Display

Initial Setup (Connection

#### To display or remove Current Time Channel Function Status overlav at right. --> press DISPLAY. REC 12:00AM ABC Rec Time Remaining -0:12:34 Counter -0:25 («STEREO 4 (OTR mode only. (SAP see p. 21.) Broadcast Audio Tape Speed Being Received (See p. 6.) (See p. 30.) **Multi Function Display Hi-Fi Indicator** Timer Indicator VCR Indicator Lights up when the Lights up when Hi-Fi audio Lights up when DECK is set for is monitored in Play mode. Timer Recording, or when One VCR/TV selector is set to VCR. Touch Recording (OTR) is used. Flashes when Timer Recording is set, but a tape has not been **Power Indicator** inserted into DECK and when Lights up when power a power interruption occurs is on. during Timer Programming. VCR mode Indicator Lights up when DECK is VCR mode. DVD 4 DVD mode Indicator VCR 12:30 🔊 VCR REC ANGLE . Lights up when DECK is DVD mode. VCR REC Indicator Lights up during recording. Clock/ Status/ Channel/ Speed Display AM ANGLE Indicator Lights up when a scene Displays the current time. Briefly displays VCR Lights before noon. status when a function button is pressed. Briefly PM is not displayed. recorded at different displays the channel number, or "L1" or "L2" when angles is detected. See p. 41. (DVD only). a channel or line input is selected. Briefly displays

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# Connections

## **Basic Connections**

- If your TV has AUDIO and VIDEO IN terminals, connect them to DECK with AV Cable for higher guality picture and sound.
- You can enjoy stereo sound even if your TV is not stereo by connecting a stereo amplifier to DECK.
- Connect DECK and TV with an RF Coaxial Cable (a) (supplied) or an AV Cable (b) (not supplied) as shown in the figure below.

DSS Receiver DECK TV ■ DECK 

TV ■ Cable Box DECK TV Antenna or Cable DSS () IN IN© Cable Box Receiver IN ා OUTG DOUT or Disconnect antenna or cable from TV and connect to DECK. 2 Connect DECK to TV with RF Coaxial Cable. DVD/VCR DECK a **RF COAXIAL CABLE** TVIN FROM ANT. IN1 VIDEO G VHF/ UHF VHF/UHF AUDIO IN VIDEC 6 AL JDIO IN OUT TO TV R (-G b AV CABLE (not supplied)

WARNING

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

### Note to CABLE system installer -

This reminder is provided to call the CABLE system installer's attention to Article 820-40 of the NEC in USA (and to the Canadian Electrical Code in Canada) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



### Connections For DVD Only

- 1 Connect AUDIO OUT2 (L, R) to the AUDIO IN (L, R) of the TV. (Audio input for COMPONENT or S-VIDEO mode).
- 2 If your TV has COMPONENT VIDEO INPUT, set SELECT SW to COMPONENT VIDEO OUT. If your TV does not have COMPONENT VIDEO INPUT but has S-VIDEO INPUT, set SELECT SW to S-VIDEO OUT.

Note • The picture will not be displayed if the SELECT SW is not set to the correct video output.

3 When in DVD mode, set your TV to either COMPONENT VIDEO IN or S-VIDEO IN.

- Notes You can watch DVDs through the S-VIDEO or COMPONENT VIDEO, VHF/UHF OUT TO TV, and VIDEO OUT connections to your TV. The VCR and TUNER pictures are available only from the VIDEO OUT and VHF/UHF OUT TO TV connections to your TV.
  - ACTION and PROG/VCR+ buttons on the remote are not available when using S-VIDEO OUT and COMPONENT VIDEO OUTPUT. Please set TV to either RF INPUT or VIDEO INPUT, and then press ACTION or PROG/VCR+.



# **Connections** (continued)

### **Audio Connections**

## Ready Checklist

Turn down the volume, then turn DECK, 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.

### ■ DECK ⇒ Amplifier ⇒ Speaker



## 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
DVD	Dolby Digital	Dolby Digital bitstream (1-5.1 ch) or OFF (no output)*1
	Linear PCM (48/96 KHz 16/20/24bit)	Linear PCM (2ch) (48 KHz sampling/16 bit only)*2 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 p. 50.)
- \*2 Sound having 96 KHz sampling is converted into 48 KHz sampling when it is output from the DECK's optical digital audio output connector.

### For Your Reference:

 Dolby Digital 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. For information on Panasonic or Technics Dolby Pro Logic Surround Sound Decoders please contact your local dealer.

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# DECK Decoder with Dolby Digital 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 DECK optical digital audio output connector. When DECK is connected to a Dolby Digital decoder or dts decoder, you can enjoy theater-guality audio in your home. [An optical digital audio cable (optional) is required when an optional Dolby Digital decoder or dts decoder is used.]



Caution for Optical Digital Audio Output Connector:

- When connecting an amplifier (with an optical digital input connector) which does not contain the Dolby Digital or dts decoder, be sure to select "OFF" at "Dolby Digital" and "OFF" at "dts" of the Settings for DVD Operation "AUDIO OUTPUT" (see p. 50). Otherwise, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.
- When a dts decoder is connected, please select "Bitstream" at "dts" of the Settings for **DVD Operation "AUDIO OUTPUT".**

If "OFF" is selected, there will be no sound. (See p. 50).

• Video CDs and CDs can be played as normal.

#### Note:

Some dts decoders which do not support DVD-dts interface may not work properly with DECK.

# **Initial Setup for Basic Connections**

## **Before doing Initial Setup**

### Turn TV on.

2

See connections (a) RF Coaxial Cable Connection and (b) AV Cable

Connection on p. 12.

<RF Coaxial Cable Connection> Set TV to channel 3. <AV Cable Connection>

Set TV to VIDEO.

# 

• Go to "How to do Initial Setup." (See below.)

### [Cable Box-DECK-TV], [DSS-DECK-TV]

- Turn on Cable Box and set it to your Public Broadcasting Station (PBS) channel in your time zone.
- · If you use DSS Receiver, it must be turned off.

### How to do Initial Setup

Press VCR button\* on the remote for VCR mode.

Press POWER to turn DECK on.

	SELECT LANGUAGE	
PRES OPRI APP.	S CH▲ : ENGLISH MIR CH▼ : ESPAÑOL VCR/TV : FRANÇAI	s
TO CH,	CHANGE VCR'S OUTPUT PRESS ACTION KEY.	Г

Press CH ▲ for English, or

Press CH ▼ for Spanish, or

**Press VCR/TV** for French, to select language.

- When DECK is turned on for the first time, SELECT LANGUAGE screen appears.
- If wrong language is set, or there is not Language Display, do "Reset All Memory Functions" steps on p. 17.
- If screen does not appear, check connection between DECK and TV.
- When you want to change the output channel of DECK, please refer to VCR's Output Channel on p. 19.



• If you selected "CABLE/DSS BOX ► VCR ► TV", continue with step 5. If not, go to step 6.

Press AV

to select. Press SET.





# Reset Language, Channels, Clock



2) Press ACTION to exit.

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• After Channel Auto Set is finished, Clock Auto Set will be performed.

mode.

# VCR's Output Channel

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





## Add or Delete a Channel

To add channel: Select channel with **NUMBER keys** and **press ADD/DLT**.

CHANNEL 08 ADDED

To delete channel: Select channel with CH ▲/▼ or NUMBER keys and press ADD/DLT.

CHANNEL 08 DELETED

# DST (Daylight Saving Time)

DECK auto adjusts clock for DST. (p. 17.)

**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.
- Keep these time changes in mind when programming DECK for Timer Recording.

# Playback/ Record on a Tape



### Rapid Rewind/FF

20

- Press REW/SLOW- or FF/SLOW+ in Stop mode to rewind or fast forward a tape.
  - · Rewind tapes in approximately one minute when using a T-120 tape.
- Press EJECT on remote. or STOP/EJECT on DECK to eject a tape.



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0.0

Multi Function Display

Press STOP/EJECT to stop

and/ or eject a tape.

### Record on a Tape

### Insert a tape with a record tab (p. 6).

 DECK power comes on. The VCR mode and "VCR" Indicator light up on Multi Function Display.

Press CH A/V, or NUMBER keys

- to select the channel.
  - For "LINE" input, see p. 39.
  - If channels is over 100, press 100 key then press the remaining 2 digits.

### **2** Press SPEED

- to select the record speed (p. 6). SP = Standard Play LP = Long Play SLP = Super Long Play
  - Speed appears on-screen and on Multi Function Display.

# Press REC

to start recording.

(The VCR REC Indicator lights up on Multi Function Display),

- To edit out unwanted scenes, **press PAUSE/STILL** to pause, and again to resume recording.
- You cannot view another channel during recording.

# **S** Press STOP

to stop recording.

One Touch Recording (recording in progress), --> Press REC repeatedly to set the recording length (30 min. ~ 4 hours).

• DECK shuts off after the preset record length.

# Record one station, watch another,

- --> press VCR/TV
  - ("VCR" goes out on Multi Function Display),
- --> select channels at TV (recording continues).

### Select channels at DECK,

- --> press VCR/TV
  - ("VCR" lights up on Multi Function Display),
- --> select channels at DECK.

### Play a disc while recording a tape.

- --> insert a disc during recording,
- --> press DVD, and then press PLAY.

# Notes

- It is not possible to record from DVD/ Video CD/ CD to VHS tape using DECK.
- Watching one channel and recording another is not possible when using Cable Box or DSS Receiver.
- After 5 minutes in Pause mode, DECK stops to protect a tape and video heads.

This video recorder, equipped with HQ (High Quality) system, is compatible with existing VHS equipment. Only use tapes with the **WHS** mark. Only tapes tested and inspected for use in 2, 4, 6, and 8 hour machines are recommended.



Remove loose or peeling labels from tapes to prevent tape jam.



Basic Operatio





# **Basic DVD Operation**



# **Ready Checklist**

- □ All connections are made. (pp. 12 ~ 15)
- DECK is plugged in.
- ☐ If DECK is connected to an audio amplifier, turn the stereo system's power on.

# Press POWER\* on the remote or DECK.



 If a disc is already inserted, go to step 4. (Depending on the disc, playback may start automatically.)

### Press OPEN/CLOSE,



<sup>\*2</sup> Video CD with playback control... Particular scenes or information can be interactively selected from a menu that appears on the screen.

Press OPEN/CLOSE

to eiect the disc.

For assis

### ■ Forward/Reverse Scene Search Press FF/SLOW+ or REW/SLOWduring Play mode.

Press PLAY to release.

- Starting forward/reverse search during Play mode started from menu on Video CDs may recall menu.
- Search speed, slow at first, increases with each additional press of the button up to 5 levels.
- Forward/Reverse Chapter/Track Skip Press SKIP ▶▶ | or |◀◀ during Play mode. Each press SKIPs a chapter (DVD) or track (Video CD/CD).
  - **Pressing \4** *SKIP* 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 mode started from menu on Video CDs may recall menu.

Current playback position



### Still Picture or Pause

Press *PAUSE/STILL* during Play mode. Press *PLAY* to release.

• DVD/Video CD : DECK will enter Still mode. • CD : DECK will enter Pause mode.

### Frame by Frame Picture (DVD/Video CD)

Press PAUSE/STILL in Still mode. Press PLAY to release.

- Each press advances picture one frame.
- Hold button down for consecutive frame advance.
- Whether pictures are advanced by "FRAME" or "FIELD" is selected automatically. (See p. 51.)

### Slow Motion Picture (DVD/Video CD) Press FF/SLOW+ or REW/SLOWin Still mode.

Press PLAY to release.

- Slow motion speed, slow at first, is increased with each additional press of the button up to 5 levels.
- Reverse slow motion is not available for Video CDs.
- When 
   \u03c6 appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.

## Surround Sound System

SURROUND ON

Press SURROUND to set Surround sound.

SURROUND OFF

To cancel, press *SURROUND*.

### Note

• Surround sound effects is available in DVD mode only.

### **Resume Function**

DECK 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 playing.

### **Auto-Power Off Function**

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

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

- 1. Do steps 1 ~ 4 (previous page). When menu appears, **press** *STOP*.
- 2. **Press NUMBER keys** to select desired track (play begins).
  - · Check the disc for track numbers.
  - Press "1" to start at beginning of the disc.

### To Resume Menu use,

**Press** *STOP* and **press** *PLAY*, 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.
- Remove a disc and press DECK 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.

# **Timer Recording**



Press PROG/VCR+ button to exit.

VCR REC Indicator TIMER Indicator

- · The "Timer" Indicator lights up on DECK.
- You can do Timer Recording either power off or power on.
- "TIMER REC WILL START SOON" appears on-screen for 2 minutes before Timer Recording start. If DECK is in DVD mode, no message appears, but the VCR REC Indicator, the VCR mode Indicator and "REC" will flash on Multi Function Display.

# **Review, Replace or Clear Program Contents:**

(Recording is not in progress)

Repeat steps 1 ~ 2 on page 24.



Press ▲▼ to select number and press SET to display.



## To Replace program...



Repeat Step 3 (p. 24) to set new programs.

Press ADD/DLT.

# To cancel Timer Recording in progress...

Hold down STOP on VCR mode for a few seconds to cancel Timer Recording. (The "TIMER" indicator goes out

on Multi Function Display.)

• Any future daily or weekly recording will be performed as programed.

or

To Clear program...



VCR Operation

**Press PROG/VCR+** button to end the program.

# Notes

- If you are using Cable Box, the VCR's channel for Timer Recording must be set to the Cable Box output channel and Cable Box must be manually set to the desired channel. Cable Box power must be left on.
- 2 minutes before Timer Recording is performed, "PLEASE PREPARE FOR TIMER REC" appears and Timer Indicator flashes.
   Be sure a cassette with record tab is loaded and DECK is in Stop mode.
- If a power interruption occurs while programming the timer, the timer program(s) may be canceled. If "TIMER PROGRAMS WERE LOST DUE TO POWER INTERRUPTION" appears on-screen, please reenter the timer programs.
- If the start time for Timer Recording comes up during recording and playing back, Timer Recording will not be performed.

### Important notes when using DSS Receiver

- When recording programs via DSS Receiver, DSS Receiver must be left on.
- When recording programs via an antenna or cable, DSS Receiver must be turned off.

# Timer Recording Using VCR Plus+<sup>®</sup> System

# Auto VCR Plus+ System Channel Setup (Part 1)

In order for VCR to read PlusCode numbers, some setup is required. Guide channel numbers are assigned to each local broadcast and cable station.

Because this number sometimes differs from the channel your TV receives the station on, it is necessary to program the VCR with local channel information.

To receive VCR Plus+ channels automatically, perform the steps below.

Or, see "Manual VCR Plus+ System Channel Setup" section on p. 28.



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

# Auto VCR Plus+ System Channel Setup (Part 2)

Before you perform the following steps, you should have:

• completed "Auto VCR Plus+ System Channel Setup (Part 1)" on p. 26.

• left VCR off overnight, and turned it back on after 9:00 AM the next day.



Press ACTION to exit this mode.

If VCR could not distinguish channel map...



**Press ACTION** to display "SELECT VCR Plus+ CH" Continue with step 2.



SELECT VCR Plus+ CH KABC CNN ESPN KNBC ► 13 14 15 12 42 18 33 7 51 5 10 101 99 110 78 :▲▼► :SET SELECT SET EXIT ACTION

Press ▲▼ ◀ ► to select channel map for your area and press SET.

## To Change or Update Auto VCR Plus+ System Channel Setup

(E.g. you selected wrong channel map or zip code.)

VCR Plus+ CH SET UP PLEASE LEAVE VCR OFF (OVERNIGHT)

Press ACTION to end.

END : ACTION

• Make sure to leave VCR off (overnight).

Channel map will be updated (overnight). If it was successful, "VCR Plus+ CH SET COMPLETED" appears on screen. And then, **press ACTION** to exit.

Repeat these steps as necessary.

If Auto Setup fails, do "Manual VCR Plus+ System Channel Setup" on p. 28. a Do "Auto VCR Plus+ System Channel Setup (Part 1)" steps 1 ~ 4 on p. 26.



- b Press ▲▼ to select "UPDATE VCR Plus+ CH" or "SELECT VCR Plus+ CH," then press SET.
- c If you selected "UPDATE VCR Plus+ CH," perform steps 5 ~ 7 in the "Auto VCR Plus+ System Channel Setup (Part 1)" section on p. 26.

If you selected "SELECT VCR Plus+ CH," perform steps 2 ~ 3 in the "Auto VCR Plus+ System Channel Setup (Part 2)" section on this page.

### Initial Setup.....

In order to use Timer Recording Using VCR Plus+ System, the Initial Setup on pages 16, 17 must be completed for setting Clock and Channel.

### Channel Setup.....

28

Since numbers assigned to channels found in TV Guide and selected newspapers may differ from channels in your viewing area, you'll need to enter your local TV channel number for each corresponding Guide Channel.

If you perform the VCR Plus+ Channel set up procedures shown below, you will be able to perform timer recordings using the PlusCode programming number listed in your local TV listing.

### Manual VCR Plus+ System Channel Setup For [VCR-TV] or [VCR-Cable Box-TV] connection only.



# VCR Plus+ System Programming

# Ready Checklist

Clock is set. VCR Plus+ Setup is complete (see pp. 26 ~ 28).

# Press PROG/VCR+ button to display "SET PROGRAM."

 Press ▲▼ to select "VCR Plus+ PROGRAMMING" and press SET to display VCR Plus+ screen.



Press NUMBER keys to enter PlusCode number and press SET.

To Make Corrections, press ◀ repeatedly to delete number, then repeat step 3.

• If the PlusCode number entered begins with "0", skip to step 5. Display in step 4 will not appear.



### Press ▲▼

to select "ONCE," "DAILY (MON ~ FRI)," or "WEEKLY" record frequency and **press SET**.



## Press ▲▼

to select record speed, and

press SET.

**Press PROG/VCR+** button to end program.



Press PROG/VCR+ button to exit.

- Press ADD/DLT to delete the program.
- Although you can do Timer Recording either power off or on, you'll need to turn power off for Auto Set of "VCR Plus+ CH SET UP" except watching a disc. (See p. 26).



### Do normal Timer Record if...

- PlusCode number is not listed for program.
- the program (e.g. sports event) may run over set stop time.

### See p. 25 to:

- cancel Timer Recording in progress.
- review, replace, or clear program contents.

### Important for DSS/ Cable Box Users

- When recording via DSS, the receiver must be left on. When recording via cable or antenna, DSS Receiver must be off.
- When recording via Cable Box, leave the box on.

# Notes

- Do not overlap program times.
- PlusCode numbers cannot be used to program VCR to record DSS and Cable Box channels.
- Make each entry within 1 minute or the VCR will exit setup mode.
- Once VCR Plus+ Channel Setup is done, channels stay in memory. If a power interruption occurs, VCR Plus+ Channel Setup may be lost. Please do VCR Plus+ Channel Setup again.
- Obtain unlisted PlusCode numbers by calling 1 - 900 - 454 - 7587. Call costs about \$.95 per minute.

# MTS Broadcast/VHS Hi-Fi Stereo System

# Connection

Make the Audio/Video Connection as shown on pp. 12 ~ 15.

• You can use TV connected to a Stereo amplifier and speakers instead of Stereo TV.

### **Receivable Broadcast Types**

The following are possible audio broadcast types and onscreen displays.

The signal being received is indicated with an "(¢" mark while the selected audio mode is indicated with an arrow.

To display the broadcast signal being received,

--> press DISPLAY\* .

### MTS Stereo and SAP broadcast

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



12:00AM

ABC 0:00:00

SP

STOP

SAP MONO

«STEREO ◀

### MTS Stereo broadcast

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

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

### SAP broadcast

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

### MONO broadcast

Normal monaural sound broadcast.



STOP 12:00AM ABC 0:00:00 STEREO SAP MONO  Equipped with dbx°-TV Noise Reduction for true MTS reproduction. dbx°-TV Noise Reduction is required for good stereo separation and audio fidelity. dbx° is a registered trademark, and is licensed by dbx° Technology Licensing.



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## Audio Mode for Recording

### 1

### Press AUDIO

to display audio mode.

(Display disappears after 5 seconds.)

# 2

(«STEREO («SAP MONO **Press AUDIO** repeatedly to select desired mode.

- Refer to "Receivable Broadcast Types" on p. 30.
- Arrow indicates selection.



Do a recording. See p. 21.

## Audio Mode for Playback

# Start playback.

See p. 20.

# 2

### **Press AUDIO** to display audio mode.



Notes

- Only tapes recorded in Hi-Fi stereo will playback with true stereo sound. Standard stereo tapes will playback in monaural sound.
- To listen to Hi-Fi stereo playback, the DECK AUDIO (L/R) jacks must be connected to a stereo TV or an external stereo amplifier and speakers. (See pp. 12, 14, 15.)
- If tracking is adjusted during playback, Hi-Fi audio may revert to normal audio.
- Hi-Fi and normal audio playback volume level may differ.

# **Multi-Brand Control Feature**

## **Multi-Brand Control Setup**

The Remote Control can be set to control some TV and Cable Box/DSS functions.

Find your TV and Cable Box/DSS Receiver Brand Code Number on the following page.

- Setup for TV control, -->hold down TV button, -->enter code with NUMBER keys.
- Setup for Cable or DSS control, -->hold down DSS/CABLE button, -->enter code with NUMBER keys.
  - If code number is 100 or greater, -->e.g., press 1 - 0 - 2 for 102.

Confirm code entry,

2

- -->press POWER to turn selected unit on or off.
- See table below for controllable functions in each mode.
- Repeat setup after remote battery replacement.
  - Remote will not control every TV, Cable Box, or DSS Receiver made by the manufacturer listed. If you get no response, your particular unit cannot be controlled. There are NO additional codes for the products listed. If your product is not listed, then the remote is not compatible with that product.

# **Using Multi-Brand Control**

After remote is set up, you can select VCR, DVD, TV, or DSS/CABLE for the desired function.

Press VCR, *DVD*, TV or DSS/CABLE on the remote. (Table below shows available remote buttons for each mode.)

Unit Mode	DVD/VCR	ΤV	CABLE/ DSS
DVD/VCR	All	VOL +/-	
TV	EJECT/OPEN/CLOSE*, DISPLAY, PLAY, STOP, FF/SLOW+, REW/SLOW-, VCR/TV, PAUSE/STILL, SKIP, AUDIO, CM/ZERO,	POWER, INPUT, NUMBER keys, ENTER, CH ▲/♥, VOL +/-	
CABLE/ DSS	ABLE/ TAPE POSITION,	VOL +/-	POWER, ENTER, NUMBER keys (except 100key), CH ▲/▼

\*Bold: VCR Function Italic: DVD Function Bold Italic: VCR and DVD Functions Normal : TV, Cable Box or DSS Receiver

## Notes

- Not all functions listed may be controllable.
- In TV or DSS/CABLE mode, it may be necessary to press ENTER after pressing NUMBER keys for channel selection.



### **TV Brand Code Numbers**

Panasonic 01, 02	Sylvania 05
Quasar 01, 02	Sharp 06, 07
RCA 03	Sony 08
GE 03	Toshiba 09
Zenith 04	Sanyo 10
Magnavox 05	

JVC         11           Hitachi         12           Mitsubishi         07, 13           Samsung         14           Cold Star         15, 16, 17	
Gold Star 15, 16, 17	

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

	Ook Sigma 46 44 400 404
Archer 44, 06, 01, 120, 05, 63, 126	Oak Sigma
Cableview 29, 09, 01, 63, 120, 44, 42, 30	Panasonic
52, 04, 124, 126	
Citizen 44, 52, 30, 63, 42, 04, 124, 126	Pioneer
Curtis	Pulsar 04, 42, 63, 44, 30, 52, 124, 126
Century 44, 51, 75, 59, 126	Quest
Cabletenna 29, 09, 01, 63, 120, 44, 126	Radio Shack 44, 51, 75, 59, 126
Cable Cinema 29, 09, 01, 63, 120, 44, 126	RCA 17, 16, 08, 87, 109
Diamond 29, 09, 01, 63, 120, 44, 126	Realistic 44, 51, 75, 59, 126
Eagle 62, 40, 22, 13, 58, 20, 26, 107	Recoton
Eastern	Regal 41, 14, 15, 28, 102, 104, 103, 130
Explorer	Regency
Gemini	Rembrandt 44, 42, 63, 29, 01, 32, 39, 120, 126
General Electric 01, 57, 120	Samsung 42, 06, 32, 05, 40
General Instruments . 01, 84, 83, 34, 03, 02, 04, 55	Scientific Atlanta 08, 09, 25, 61, 53, 87
65, 66, 67, 68, 120, 106, 121, 122, 115, 117, 118, 124	Sheritech 27
Gerrard 44, 51, 75, 59	Signal 26, 112
GC Electronics 44, 42, 63, 29, 30, 52, 04	SL Marx 42, 06, 32, 40, 43, 44, 52, 63, 126
124, 126	Sprucer 17, 16, 08, 87, 109
Hamlin 41, 14, 15, 28, 102, 104, 103, 130	Standard Components 32, 39, 42, 44, 126
Hitachi 31	Stargate04, 42, 32, 40, 63, 44, 30, 52, 06
Jerrold 01, 84, 83, 34, 03, 02, 04, 55, 65, 66	124, 126
67, 68, 120, 106, 121, 122, 115, 117, 118, 124	Sylvania 19, 18
Jasco	Teknika74, 35
Macom 31	Telecaption 77, 127
Magnavox 26, 112	Teleview 40, 19, 38, 32, 42, 06
Matsushita 17, 16, 08, 87, 109	Texscan 19, 18
Movietime 32, 39, 42, 44, 126, 38, 40	Tocom
Maestro 74, 35	Toshiba
NEC 40, 19, 38, 32	Unika 44, 42, 63, 29, 01, 126, 120
NSC 40, 19, 38, 32	Universal52, 43, 44, 63, 42, 126
Novavision	Viewstar 62, 40, 22, 13, 58, 20, 26, 107
Next Level 01, 84, 83, 34, 03, 02, 04, 55, 65	Videoway 07, 23, 50, 129
66, 67, 68, 120, 106, 121, 122	Vidtek 64
Oak 46, 11, 129, 101	Zenith 07, 23, 50, 129
DSS Brand Code Numbers	
Toshiba	Optimus
Hitachi/ Hughes	Panasonic
Primestar	ProScan
Drake	RCA
Magnavox 94, 95	SONY 98, 105
Uniden 94, 95	

### Important Notes

- 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.
- Some TV, Cable Box and DSS Receiver brands require you to turn on the power manually. 33

# Search System

For each recording, an invisible index mark is placed on the tape. A program index and information are also included for timer recordings. These marks are used to access or scan recordings.

### Index Search



FORWARD SEARCH :FF REVERSE SEARCH :REW NEXT :SEARCH EXIT :STOP

INDEX SEARCH

FORWARD SEARCH : FF

REVERSE SEARCH : REW

Press SEARCH\* to display SEARCH in Stop or Play mode, and then press NUMBER keys to select recording

number.

• To calculate number, see below.

Press FF/SLOW+ or REW/SLOWto start search.

2

Play begins at search end. To search forward or back 1 index, **press FF/SLOW+** or **REW/SLOW**while screen left is displayed (10 sec.).

 To cancel, press PLAY or STOP.

### To Calculate Index Number

### Example 1:

To go to rec. 2 from rec. 4, enter 3 and press REW.



### Example 2:

To go to rec. 6 from rec. 2, enter 4 and press FF.



NOTE: I indicates start points of each recording.

## Note

 If Index Search is started very close to an index mark, that index mark may not be counted in the search.

### Program End Search

Locates end point of recording for continuity.

**Press SEARCH** twice to display SEARCH in Stop or Play mode.



### Examples of Program End Search.





Fig. 2



### Fig. 3



### Upon locating end point,

-->search continues 7 sec. past end point, -->tape rewinds to 10 sec. before end point, -->tape plays to end point and stops.



 If Program End Search is started very close to an index mark, that mark may be skipped over.



## **Auto Operation Functions**

### Auto Play

Insert a tape -->Power comes on, -->Play starts if no record tab (see p. 6).

### Auto Rewind

Plav -->Tape end -->Rewind Manual Record Fast Forward

### Play Auto Eject

(Repeat Play must be off)

Play -->Tape end -->Rewind -->Tape ejects if no record tab

 If Timer Program is set, "Play Auto Eject" will operate with or without a record tab.

### **Commercial Skip**

VCR fast forwards (skips) over 1 ~ 3 minutes of recorded tape.

- Press CM/ZERO in Play mode.
  - The skip time can be changed by pressing CM/ZERO repeatedly as shown by the figure below.

PLAY  

$$\downarrow$$
  
1st Press  $\rightarrow$  1 min Skip  
 $\downarrow$   
2nd Press  $\rightarrow$  2 min Skip  
 $\downarrow$   
3rd Press  $\rightarrow$  3 min Skip

• No indication appears on-screen.

# Tape Operation (continued)

## Repeat Play

Set to playback a recording over and over.

1

Press ACTION\*



• Play repeats at tape end or if unrecorded portion over 30 sec. is detected.

Press ACTION twice to return to normal screen.



## Zero Search

To quickly return to a specified tape location.

**Press DISPLAY** during Play mode to display Counter.



# Press COUNTER RESET

at desired position to reset to "0:00:00".

3 Continue to record, playback etc.

5

**4** Press STOP.

BEGIN



END

**Press CM/ZERO** in Stop mode to start Zero Search.

Note

 If a blank portion exists on the tape, and depending on the position of the V mark, the V mark display position may not be accurate.

• DECK will go into FF or REW mode and stop at the last point the Counter was set to 0:00:00.
# **Special VCR Features**



# VCR Lock Feature

When set to ON, all operations except for timer record and tape eject are prohibited. Useful for households with small children.

#### To turn on,

hold down REC on DECK in Stop mode with no tape inserted for 7 seconds. (Please ignore "NO CASSETTE" warning.)



To turn off, repeat above.



• VCR Lock cancels in 24 hours if clock is set.



## Weak Signal Display Feature

When "ON," picture is displayed regardless of signal strength.

- Press ACTION
- to display MENU.



Press ▲▼ to select "SET UP CHANNEL," and press SET.



Press ▲▼ to select "WEAK SIGNAL DISPLAY," and press SET to set "ON" or "OFF."

- ON: Picture is displayed regardless of signal condition, and may not always be clearly visible.
  - OFF: Screen turns solid blue when signal is weak or non-existent.
- Selecting ON has no effect on connected equipment with blue back feature.

**Press ACTION** twice to return to normal screen.

### Auto Shut-Off Feature

When set to ON, DECK shuts off if blank tape is played or no signal is detected for 5 minutes.

Press ACTION to display MENU.

to display MENU



Press ▲▼ to select "SET UP VCR," and press SET.



Press ▲▼ to select "AUTO SHUT-OFF," and press SET to set "ON" or "OFF."

**Press ACTION** twice to return to normal screen.

# **Special VCR Features (continued)**



#### Tape Position and Tape Status Feature

To find out the present tape position and amount of tape remaining.

Tape position cannot be detected for VHS-C Cassettes, tapes under 30 minutes, and some other tapes.

#### Press TAPE POSITION

to detect current tape position.



- "DETECTING TAPE POSITION" is displayed only when a cassette is first inserted, and it takes several seconds for correct tape position to appear.
- The present tape position indication and amount of tape remaining (according to tape speed) is displayed.
- Tape remaining time display may not be precise.

# Note

 This function cannot display exact amount of tape remaining for tapes 30 minutes or less, or for tapes over 120 minutes in length.



# Copying Your Tapes (Dubbing)

# Connection



copyright infringement. · Please note that some tapes cannot be dubbed on DECK. Also, it is not possible to dub DVD/ Video CD/ CD to VHS tapes using DECK.

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<u>Operation</u>

# **Disc Operation**

## Subtitle Language (DVD only)

You can select a different subtitle language (if offered) than the one set at the Settings for DVD Operation. (See p. 49.)



#### Press SUB TITLE\*

in Play mode to display the subtitle selection on-screen.

- Display disappears after 5 seconds.
- When no subtitles are offered, "-" will be displayed instead of the language number.



Press ▲▼ to select a language. Press ▶ (or ◀) to set. Press ▲▼ to select "ON" or "OFF."

Number of subtitle language being played back.

### 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 again 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.

## 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 p. 49.)

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



#### Press AUDIO

in Play mode to display the audio selection on-screen.

• Display disappears after 5 seconds.

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



Press ▲▼

to select desired language.

### Ready Checklist

Please read "Basic DVD Operation" on p. 22.

#### [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	
2.1	0	
RUS	Russian	
-		
RUS	Russian	
RUS JPN	Russian Japanese	
RUS JPN CHI	Russian Japanese Chinese	
RUS JPN CHI KOR	Russian Japanese Chinese Korean	
RUS JPN CHI KOR MAL	Russian Japanese Chinese Korean Malay	
RUS JPN CHI KOR MAL VIE	Russian Japanese Chinese Korean Malay Vietnamese	

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

[Audio attribute 1 type, sampling frequency, bit No. of the disc (see p. 50.)]

LPCM	96KHz	16bit	
	or 48KHz	20bit	Linear PCM disc
		24bit	
Dolby Digital	1ch - 5.1ch		Dolby Digital 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 again 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  $\bigcirc$  appears on the screen while a button is being operated, it means that the corresponding operation is prohibited by DECK or the disc.



ANGLE Indicator

### Notes

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



### Notes

- The subtitle cannot be enlarged nor can it's position be changed.
- The picture zoom feature does not work with a Video CD.
- During picture zoom, "ZOOM1" or "ZOOM2" is displayed on-screen.
- Zooming, on some discs, may result in poor picture quality, or not operate.

# Multiple Angle Viewing (DVD only)

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



#### **Press ANGLE** in Play mode to display the angle selection on-screen.

Display disappears after 5 seconds.



# **Press** ▲▼ or *ANGLE* to select the desired angle.

Number of angle being played back.

Vocal Selection for Karaoke Discs (DVD/Video CD)

**Press** *AUDIO* in Play mode to display the audio screen.



טעט Operation

# Picture Zoom (DVD only)

You can enlarge specific portions of a picture and select the zoom ratio using the ZOOM button in Play mode.

### 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, down, left and right.

# Disc Operation (continued)

### Title Menu (DVD only)

Some DVDs have more than one title, e.g. movies. If the disc offers a title menu, you can select the desired title number. (Operation may vary according to the disc.)



## 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.



<Example>



<Example>

- Press MENU in Play mode to display DVD MENU.
- **Pressing** *MENU* again resumes play from the scene when *MENU* was first pressed.



• Step 2) not necessary when using NUMBER keys.

Repeat step 2 if more than one menu.





Press  $A \lor A \lor$  to move to "CLEAR ALL" and press *SET*. (Programs are also cleared when the power is turned off or the disc is removed.)

then press SET.

# **Disc Operation (continued)**

### Random Play (Video CD/CD)

Tracks are played in a random order.

Press ACTION\*

#### \*Important:

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200

**NPE POSITIO** REC

SET

If a remote control button does not work when pressed, press the DVD button on the remote and try the button again.



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

When *DISPLAY* is pressed, On-Screen Displays show disc information (title/chapter/track number, elapsed playing time) and DECK information (Repeat Play, Play mode).



DECK is in DVD mode, press DVD.

- **Press** *DISPLAY* in Play or Stop mode to display "On-Screen Displays."
  - Each **press** of **DISPLAY** changes on-screen display as follows. (Refer to p. 46 or 47.)

→ Selected disc information Selected DECK information Normal Screen

# Note

DISPLAY button does not function while DVD TITLE MENU is displayed.

2

# Press ▲▼ (or ◀►) to select an item, and

press SET.

### **?** Press ▲▼

to select the setting, and **press** *SET*.

#### <Example of DVD>



- For some functions the setting will be registered immediately without pressing *SET*.
- When numbers are displayed (e.g. title number), *NUMBER keys* are also available.

<Example of Video CD>



# To make corrections, press ▲▼ and SET

repeatedly to move to error, then correct.

 Pressing ► is effective for elapsing time instead of the above buttons. Press ◄ repeatedly to delete the error, then correct.

To return to normal screen, press *CLEAR* or *DISPLAY* repeatedly.

# Notes

- When *DISPLAY* button is pressed during playback of a Video CD with Playback control, *NUMBER 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 DECK or the disc.



DVD Operation

# 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 **NUMBER keys**, and **press SET**.

#### 2. Chapter No.

 Change the No. by pressing ▲▼ or NUMBER 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** *NUMBER keys*, and **press** *SET*. e.g., press 0 - 1 - 2 - 3 - 4 - 5 for 01 : 23 : 45.
- This function does not work with some discs.

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

#### A. Track No.

 Change the No. by pressing ▲▼ or NUMBER 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 play started from menu 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 DECK or the disc.







### Detailed Descriptions of each On-Screen Display

#### **DECK** information screen

• Change the desired mode during play by pressing **AV**, 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 p. 43 or 44.)

PROGRAM PLAY	program play
RANDOM PLAY	random play
-	normal play



#### For your reference

CHAPTER/TITLE REPEAT PLAY (DVD)
 CURRENT PLAYBACK POSITION



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

	track	track	track
TRACK REPEAT			
DISK REPEAT NORMAL PLAY		-	
			-



• For repeat play in VCR mode, see p. 36.

# **DVD Lock Feature**

\*Important: If a remote control button does not work when pressed, press the 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.

### DVD Lock (DVD only)

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

Press ACTION\* to display MENU. Press AV MENU SET UP DVD to select "SET UP DVD," SET UP VCR SET CLOCK and IDIOMA/LANGUE : ENGLISH VCR'S OUTPUT CH:3 press SET SELECT : AV EXIT : ACTION to display DVD screen. SET:SET Press AV DVD MAIN MENU 3 DISC LANGUAGES AUDIO OUTPUT STILL MODE to select "PARENTAL LOCK," STILL MODE : AUTO TV MODE : Pan&Scan 4: PARENTAL LOCK : LEVEL & and press SET to display. SELECT SET FND SET ACTION 1) Press NUMBER keys 4 I OCK to enter your secret code. ENTER 4-DIGIT CODE ----Enter same secret code again for confirmation. ENTER :0-9 END :ACTION Press SET to display. Step 2) not necessary when To Make Corrections changing rating or secret **Press** < repeatedly code. to move the cursor. Take care that you are not Press NUMBER keys observed entering the to make the correction. secret code. Press AV4 PARENTAL LOCK LEVEL 8 LEVEL 4 to select rating level, and LEVEL 7 LEVEL 6 LEVEL 2 press SET LEVEL 0 to select "LOCKED" or NO LIMIT "UNLOCKED." SELECT SET END :▲▼◀► :SET LEVEL 0 : LOCK ALL, Playback of all DVDs, CDs and Video CDs is prohibited. (Use to prohibit play of mature theme DVDs not encoded with rating level.) **LEVEL 1** : mature theme DVDs **LEVEL 2** : DVDs expressly for children can be played back. LEVEL 3 to 7 : DVDs for general audiences/children can be played back. (DVDs with mature content are prohibited.) LEVEL 8 : NO LIMIT: (Factory preset) All DVDs can be played back. Press ACTION three times to end setup.

### 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.

#### <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.

#### Change your secret code • You will need your current code.

You will need your current code.
 Do step 1 ~ 3 left.
 Enter current secret code.
 Press CLEAR to clear the code.
 Do step 4 to enter new code.

Note

• DO NOT forget your secret code.

# Settings for DVD Operation



#### Press ACTION in Stop mode to display MENU.

MENU SET UP DVD

IDIOMA/LANGUE : ENGLISH VCR'S OUTPUT CH:3

SELECT : ▲▼ SET:SET EXIT : ACTION

SET UP VCF SET CLOCK



#### Press AV

to select "SET UP DVD," and press SET

to display screen.



FXIT

Press AV

to select an item, and press SET.

### **DISC LANGUAGES** (See below)

All languages offered on the disc can be set. If the language not offered is set, the original disc language will be selected.

#### AUDIO OUTPUT (See p. 50.)

You can set the audio output that comes from the digital audio output terminal.

#### STILL MODE (See p. 51.)

To select "FIELD" (Field still) or "FRAME" (Frame still) to prevent jitter or make small text or fine patterns clearly visible in a still picture. When "AUTO" is set "FIELD" or "FRAME" is selected automatically.

#### **TV MODE** (See p. 51.)

To select whether the video material for a widescreen will be played back in the Pan & Scan style, Letterbox style or 16 : 9 style.

### Disc Languages (DVD only)

To select and set the language of the audio soundtrack, subtitles, or title/DVD menus for all discs to be played.



#### Press AV to select "DISC LANGUAGES,"

and press SET to display screen.



Press AV to select an item, and press SET repeatedly for desired language. (Please refer right.)

Press ACTION to redisplay DVD menu and go to step 3 to setup another item. Or, press ACTION three times to exit.

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

# **Ready Checklist**

□ DECK is in DVD mode, press DVD.



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

#### "SUBTITLE" selections

(Factory preset: AUTO) To select the subtitle language. AUTO: Same language selected for "AUDIO"

- 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/ Spanish/ French

**OTHER** ★★★★: Other language selection\*<sup>1</sup>

"MENUS" selections (Factory preset: English) To select the language used in title menus or DVD menus. English/ Spanish/ French **OTHER \*\*\*\*:** Other language selection\*1

#### To enter OTHER \*\*\*\* code number, Press NUMBER keys (Please refer to

language codes on p. 52). To make corrections, press repeatedly to delete language code number, and correct.

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

### Audio Output

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





to select "AUDIO OUTPUT," press SET to display screen. Press AV

to select an item, and press SET repeatedly for output. (See below.)

#### "LPCM (DVD)" selections

SET ACTION

- 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 bitstream (1ch-5.1ch) is output. (Factory preset) No output.

OFF:

SELECT SET END

#### "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)
- **ON:** For dynamic sound even at low volume, this is useful for late-night listening. [Dolby Digital DVDs only].

#### "SURROUND" selections

Surround Sound creates the effect of sound coming from non-existent rear speakers even when only connected to a 2-channel stereo system. **OFF:** No Surround Sound effect. (Factory preset) ON: Surround Sound effect.

Press ACTION to redisplay DVD menu and go to step 2 to setup another item. Or, press ACTION three times to exit.

Type of amplifier	Reco	mmended	setting
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* <sup>1</sup>	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.
- \*1 Audio Output 2 from DECK 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 2 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 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.
- \*3 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 DECK and the listener should be about 3 or 4 times the distance between the right and left front speakers.

### Still Mode

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



### Do steps 1 and 2 on p. 49.



Press ▲▼ to select "STILL MODE," and press SET repeatedly for mode. (See below.)

- AUTO: "FIELD" (Field still) or "FRAME" (Frame still) is automatically selected during the Still mode. (Factory preset)
- FIELD: "FIELD" (Field still) is always selected. This setting will reduce jitter when compared with "AUTO" on some discs.
- FRAME: "FRAME" (Frame still) is always selected. Some texts and fine patterns will be seen clearly when compared with "AUTO" on some discs.
- **2** Press ACTION twice
- **O** to exit this mode.

# TV Mode

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

Do steps 1 and 2 on p. 49.



Press ▲▼

to select "TV MODE," and **press** *SET* repeatedly for mode. (See below.)

#### Pan & Scan 4 : 3 (Factory preset) :

Wide-screen video data is played in Pan & Scan style (left and right of screen is trimmed.)

• Video data not formatted in Pan & Scan will play in letterbox style.

#### Letterbox 4:3:

Wide-screen video data is played in Letterbox style (top and bottom of screen has black margin).

- 16:9:
  - Set "16: 9" when using wide-screen TV.

#### Press ACTION twice

to exit this mode.



# Example

• Pan & Scan (Factory preset)



Letterbox



# Language Code List

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENUS" (see p. 49).

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

# Warning and Instruction Displays

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

OSD	Caution	Page
NO CH FOUND PLEASE CHECK ANTENNA CABLE CONNECTION THEN PRESS CH UP KEY AGAIN	If no active channels are found for CHANNEL MEMORY	12 16
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set	18
PLEASE PREPARE FOR TIMER REC	If DECK is not in Stop mode or a cassette with record tab is not inserted 2 minutes before a Timer Recording is about to begin	24 25
CHECK CASSETTE RECORD TAB	If you press REC on the remote control or DECK, and a cassette is inserted with no record tab	6
NO CASSETTE PLEASE INSERT A CASSETTE	If you press PLAY, FF, REW, or REC on the remote control or DECK without a cassette inserted	20 21
TO CANCEL TIMER REC HOLD DOWN STOP KEY FOR APPROX 3 SEC	If you press STOP or POWER during a Timer Recording (visible in VCR mode only)	25
VIDEO HEADS MAY NEED CLEANING PLEASE INSERT HEAD CLEANING CASSETTE OR REFER TO MANUAL	If head cleaning becomes necessary while playing back a tape	6
VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while DECK is in VCR Lock mode	37
REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE DVD : DVD KEY USE TV : TV KEY	If you press an invalid key on the remote while in CABLE/DSS mode	32 33 38
REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE DVD : DVD KEY USE CABLE/DSS : CABLE/DSS	If you press an invalid key on the remote while in TV mode	32 33 38
PLEASE CHECK THE DISC, AND FOR STAINS OR SCRATCHES ON DISC	If you press PLAY, or DECK 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	4
IT IS PROHIBITED TO COPY	If you press REC in DVD mode	21

# For Your Information

# **Before Requesting Service**

#### Check the following points if you are having trouble with your DECK.

Power	Correction
No power	<ul><li>Completely insert Power Plug into an AC outlet.</li><li>Set POWER button to on.</li><li>Make sure power source is active.</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. (pp. 23, 37)</li> </ul>
Recording & Playback	Correction
TV program cannot be recorded	<ul> <li>Check connections between DECK, external antenna, and TV.</li> <li>Check channel selections.</li> <li>Make sure your antenna system (CABLE or TV) is correctly set. (Channels [p. 18])</li> <li>Make sure cassette record tab is intact. (p. 6)</li> </ul>
Timer recording cannot be performed	<ul> <li>Confirm that clock is set to current time and date.</li> <li>Make sure Cable Box/DSS Receiver (if used) is left on and tuned to channel to be recorded.</li> <li>Set recording start/stop times correctly. (p. 24)</li> <li>Timer Recording may not be performed or continued if a power interruption occurs before or during Timer Recording, even after power is restored.</li> </ul>
There is no playback picture, or the playback picture is noisy or contains streaks	<ul> <li>Select channel 3 or 4 on TV to match VCR output channel (3 or 4) (p. 16) or select VIDEO.</li> <li>Set VCR/TV selector to "VCR."</li> <li>Adjust TRACKING control in either direction. (p. 6)</li> <li>Try Head Cleaning. (p. 6)</li> </ul>
Special effects playback, picture may contain some vertical jitter when using a TV with an Automatic Vertical Hold Control	<ul> <li>Set TV's Vertical Hold Control to MANUAL, then adjust.</li> </ul>
DECK cannot be controlled	<ul> <li>Make sure DECK power is on.</li> <li>Check Remote batteries.</li> <li>Make sure VCR LOCK is set to off. (p. 37)</li> <li>Make sure Remote is in proper mode. (p. 32)</li> <li>Make sure Timer Record is not in progress.</li> </ul>
Remote Control	Correction
DECK cannot be remote controlled	<ul> <li>Make sure DECK power is on.</li> <li>Make sure Remote is in VCR mode.</li> <li>Aim Remote Control directly at remote sensor on DECK.</li> <li>Avoid any object blocking signal path.</li> <li>Check Remote batteries. (p. 4)</li> <li>Exposing DECK remote sensor to direct fluorescent or outdoor light may cause signal interference.</li> </ul>
ACTION and PROG/VCR+ buttons do not respond	<ul> <li>These buttons are not available in Component Video Output and S-Video Out. Set TV to either RF IN or VIDEO IN. (p. 10)</li> <li>Check Remote batteries. (p. 4)</li> <li>Press VCR or DVD button for VCR/DVD mode. (p. 32)</li> </ul>

Check the following points if you are having trouble with your DECK.

DVD/ Video CD/ CD	Correction
Play fails to start even when PLAY is pressed	<ul> <li>This DECK 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 Forward/Reverse Scene Search play	Some discs may have sections which prohibit Forward/Reverse Scene Search. (p. 23)
Play does not start even when title is selected	Confirm the "DVD LOCK" setting. (p. 48)
Audio Soundtrack Language and/or Subtitle Language is not the one selected at the initial settings	If the Audio Soundtrack Language and/or Subtitle Language selected at DVD initial settings does not exist on the disc, it will not be accessible.
No subtitles	<ul> <li>Subtitles appear only when available on disc.</li> <li>"OFF" is selected at the Subtitle Language. Select "ON" at the Subtitle Languages (p. 40) to display the subtitles.</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	This function is dependent on software availability. Even if disc has multiple angles, they may be recorded for specific scenes only (ANGLE Indicator on DECK lights up). (p. 41)
Miscellaneous	Correction
Programs cannot be viewed on TV	<ul> <li>Make sure TV is set to output of DECK.</li> <li>Check connections between DECK, external antenna, and TV.</li> <li>Set VCR/TV selector to "TV." (p. 21)</li> <li>Make sure proper signal source is selected.</li> </ul>
Video cassette cannot be inserted	Insert the cassette with window side up; record tab facing you.
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)
In Stop mode, the motor (CYLINDER) continues to rotate	• To enable Quick play mechanism, the cylinder will rotate for about 3 minutes. This reduces response time from Stop to Play mode.
The disc cannot be removed	• First, unplug DECK. Then, prepare a rigid wire (e.g. an extended paper clip) 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. 9)

If you cannot resolve the problem, please call the Customer Call Center for product assistance at 1-800-211-PANA (7262). To locate an authorized servicenter, please call toll free 1-800-211-PANA (7262). or send e-mail to : consumerproducts@panasonic.com

For Your Information

For Product Information, Operating Assistance, Literature Request, Dealer Locations, and all Customer Service inquiries please contact: 1-800-211-PANA (7262), Monday-Friday 9am-9pm Saturday-Sunday 9am-7pm,

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:

Customer Orders Only 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)

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As of January 2001

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# **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/QUASAR Video Products Limited Warranty

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

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

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

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

Memory cards (if included) - Exchange defective item for new one for ninety (90) days.

In-home, carry-in or mail-in service, as applicable, in the USA can be obtained during the warranty period by contacting a Panasonic Services Company (PASC) Factory Servicenter listed in the Servicenter Directory. Or call toll free contact number listed above, to locate an authorized PASC Servicenter. Carry-in or mail-in service in Puerto Rico can be obtained during the warranty period by calling the Panasonic Sales Company telephone number listed in the Servicenter Directory.

This warranty is extended only to the original purchaser. A purchase receipt or other proof of the date of the original purchase is requires before warranty service is rendered.

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

#### LIMITS AND EXCLUSIONS

warvid 02/ 12/ 2001

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO RECORDING MEDIA) RESULTING FROM THE USE OF THIS PRODUCTS, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary, from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the Consumer Affairs Department at the Panasonic Consumer Electronics Company address above. SERVICE CALLS WHICH DO NOT INVOLVE DEFECTIVE MATERIALS OR WORKMANSHIP AS DETERMINED BY THE WARRANTOR, IN ITS SOLE DISCRETION, ARE NOT COVERED. COSTS OF SUCH SERVICE CALLS ARE THE RESPONSIBILITY OF THE PURCHASER.

For Your

# Spanish Quick Use Guide/ Guía para rápida consulta

### Como realizar la Configuración Inicial

# Encienda el TV y ajústelo al canal 3 o Vídeo. Al encender el VCR con el control remoto. Al encender el VCR por primera vez, en la pantalla aparecerá SELECT LANGUAGE.



- Si la pantalla no aparece, verifique las conexiones entre el DECK y el TV, y si el TV está sintonizado al canal 3.
- Cuando desee cambiar el canal de salida del DECK, por favor remítase Canal de Salida del VCR en la página 19.
- Si ajusta el idioma equivocado, realice los pasos de "Reajuste de Todas las Funciones de Memoria del VCR" en la página 17.



El ajuste Canal/Reloj se lleva a cabo automáticamente. Caso 1 (Configuracion completada) Caso 2 (Configu

Caso 2 (Configuracion incompleta)



Operaciones básicas para la reproducción	Programación fácil para la
<ol> <li>Inserte un cassette.</li> <li>La alimentación del DECK se activa. En la Pantalla de Visualización Multi Función se ilumina "VCR".</li> </ol>	grabación con temporizador <b>Presione PROG/VCR+</b> para visualizar PROGRAM.
<ul> <li>Presione PLAY para reproducir el cassette.</li> <li>Si el cassette no tiene lengüeta de prevención de grabación (página 6), se inicia la reproducción automáticamente.</li> <li>Detalles especiales durante la grabación</li> </ul>	2 FIJAR PROGRAMACION <u>TEMEORIZADOR</u> VCR Plus+ ELEGIR: ▲▼ FIJAR: SET SALIR : PROG FIJAR: SET Para exhibir. Presione ▲▼ para seleccionar "TEMPORIZADOR". Presione SET para exhibir.
<ul> <li>Presione FF/SLOW+ o REW/SLOW- para búsqueda de escenas hacia delante/ hacia atrás. Presione de nuevo o presione PLAY para liberar.</li> <li>Presione PAUSE/STILL para imagen Fija (Congelada). Presione PLAY para liberar.</li> <li>Presione PAUSE/STILL en el modo de imagen fija para imágenes cuadro a cuadro. Presione PLAY para liberar.</li> <li>Presione FF/SLOW+ o REW/SLOW- en el modo de imagen fija para imágenes cuadro a cuadro. Presione PLAY para liberar.</li> <li>Presione FF/SLOW+ o REW/SLOW- en el modo de imagen fija para imágenes cuadro a cuadro. Presione PLAY para liberar.</li> <li>Presione STOP para detener el cassette.</li> <li>Presione REW/SLOW- o FF/SLOW+ en el modo de parada para rebobinado/avance rápido del cassette.</li> <li>Presione EJECT en el control remoto, o STOP/EJECT en el DECK para expulsar el cassette.</li> <li>Operaciones básicas para la grabación</li> <li>Inserte el cassette con lengüeta de protección de grabación. (pág. 6)</li> <li>Presione SPEED para seleccionar la velocidad de grabación.</li> </ul>	<ul> <li>3 Frequencies of the parameters of the</li></ul>
<ul> <li>SP = Reproducción estándar,</li> <li>LP = Larga duración,</li> <li>SLP = Superlarga duración.</li> <li><b>4</b> Presione REC para comenzar a grabar.</li> <li>Para eliminar escenas indeseadas, presione PAUSE/STILL para pausar, y al presionar nuevamente se reanuda la grabación.</li> <li>No podrá ver otro canal durante la grabación.</li> <li><b>5</b> Presione STOP para detener la grabación.</li> <li><b>6</b> Grabación de un toque (grabar en marcha), Presione REC repetidamente para ajustar la hora de grabación (30 min - 4 horas).</li> </ul>	4. Presione ▲V para seleccionar un número que no está usando para ingresar mas programas y presione SET para ajustar. Luego repita el paso 3. O Presione nuevamente PROG/VCR+ para salir. Grabación normal→0:30→1:30→
a una hora programada.	59

Guía para rápida

# Operaciones básicas del DVD

1	Presione POWER en el control remoto o el aparato.		
2	Presione DVD para seleccionar el modo DVD.	POWER	OPEN/ CLOSE
3	<ol> <li>Presione OPEN/CLOSE.</li> <li>Ponga un disco en la bandeja de disco.</li> <li>Sujete el disco sin tocar ninguna de sus superficies, póngalo con el lado donde esté impreso el título hacia arriba, alinéelo con las guías y póngalo en su posición apropiada.</li> <li>Disco de 3"(8 cm) Disco de 5" (12 cm)</li> </ol>	PLAY	FF/ SLOW+
4	<ul> <li>Presione PLAY para iniciar la reproducción.</li> <li>La bandeja del disco se cierra automáticamente.</li> <li>Si está usando un DVD interactivo (Interactive DVD) o un Vídeo CD con contol de reproducción (playback control) y aparece un menú de títulos (TITLE MENU) en la pantalla, siga al paso 5.</li> </ul>	STOP NUMBER keys	
5	<ul> <li>Presione ▲▼◀► o las teclas numéricas para seleccionar el artículo deseado.</li> <li>Presione SET para la reproducción.</li> <li>Si usa las teclas numéricas, la reproducción comienza automáticamente.</li> </ul>		-SKIP ►►
6	Presione STOP para parar la reproducción.		
7	Presione OPEN/CLOSE para expulsar el disco.	COUNTER RESET SPEED CALZERO REC	
∎ P	Para buscar una escena particular Búsqueda hacia adelante Presione <i>FF/SLOW+</i> en el modo de reproducción. Búsqueda hacia atrás Presione <i>REW/SLOW-</i> en el modo de reproducción. (Para liberar, presione <i>PLAY</i> )		
	Para saltar un capítulo o una pista Salto hacia adelante Presione SKIP ►►I en el modo de reproducción. Un capítulo (DVD) o una pista (Vídeo CD/CD) se salt Salto hacia atrás Presione I◄ SKIP en el modo de reproducción.	a cada ves que se oprime la te	cla.
∎ P	Vara ver una imagen fija Presione PAUSE/STILL durante la reproducción. (Para liberar, presione PLAY)		
∎ P	Para ver imágenes cuadro a cuadro (DVD/Vídeo CD) Presione PAUSE/STILL en el modo de imagen fija. La imagen avanza un cuadro cada vez que presiona (Para volver a la reproducción normal, presione PL/		
∎ P	Para ver en cámara lenta (DVD/Vídeo CD) Presione FF/SLOW+ o REW/SLOW- en el modo de i (Para liberar, presione PLAY)	magen fija.	

# Funcionnamiento del DVD utilizando visualizaciones en pantalla

Cuando se presiona DISPLAY, la visualización en pantalla muestra la información del disco (título/ capítulo/ número de lista, tiempo transcurrido de reproducción, audio/ idioma del subtítulo, y ángulo) e información (repetir la reproducción, modo reproducción, Karaoke vocal encendido/ apagado, etc.).

- **Presione** *DISPLAY* en el modo reproducción o parada para visualizar Visualizaciones en pantalla.
  - Cada vez que se **presione** *DISPLAY*, la visualización en pantalla cambia como se muestra a continuación.

Información seleccionada del disco Información seleccionada del DECK V Pantalla normal

- 2 Presione ▲▼ (o ◀►) para seleccionar el ítem deseado. Presione *SET* para ajustar.
- 3 Presione ▲▼ para seleccionar el ajuste deseado. Presione *SET* para ajustar.

Para volver a la pantalla normal, Presione repetidamente CLEAR o DISPLAY.







Guía para rápida consulta

# Spanish Quick Use Guide/ Guía para rápida consulta

### Fijaciones iniciales

- **Presione ACTION** en el modo de parada para visualizar MENU.
- 2 Presione ▲▼ ◀► para seleccionar "PREPARA DVD". Presione SET.

3 Presione ▲▼ para seleccionar el artículo deseado. Presione *SET*.

#### IDIOMAS DEL DISCO

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.

#### DETENER RASTREO

Para seleccionar "CAMPO" o "CUADRO" para prevenir inestabilidad o para permitir ver textos pequeños o patrones finos claramente en el modo de imagen fija.

#### PREFERENCIA

Para seleccionar si el material del vídeo para pantalla ancha será vuelto a reproducir en el estilo Pan&Scan, en el estilo Letterbox o en el estilo 16 : 9 en la pantalla.

Presione ▲▼ para seleccionar el artículo deseado. Presione *SET*.

**5** Volver a visualizar el menú de DVD para continuar el ajuste.

**Presione** *ACTION* y pase al paso 3 para ajustar otro ajuste o, para salir, **presione** *ACTION* tres veces.

#### 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 éste se encuentra disponible.



Presione SUBTITLE durante la reproducción. Cuando no haya subtítulos grabados, "-" se visualizará en lugar del número de idioma.



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**Presione** ▲▼ para seleccionar el idioma deseado.

**Presione** ► (o ◀) para ajustar.

Presione ▲▼ para seleccionar "ACTIVO" o "INACTIVO."

#### Selección de IDIOMAS DEL DISCO [DVD solamente]

Seleccione "AUDIO"

(Fijación de fábrica : inglés)

Inglés/ Español/ Francés : Original : Se seleccionará el idioma

original de cada disco. OTRO \*\*\*\* : Se puede seleccionar el otro idioma.

#### Seleccione "SUBTITULO"

(Fijación de fábrica : AUTO)

- AUTO : Se seleccionará el mismo que fue seleccionado en la preparación de "AUDIO".
- 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/ Español/ Francés :

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

#### Seleccione "MENU"

(Fijación de fábrica : inglés)

#### Inglés/ Español/ Francés :

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

# 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.



**Presione** *AUDIO* durante la reproducción para visualizar la pantalla AUDIO.



Presione ▲▼ para seleccionar idioma.

#### Visión desde otro ángulo [DVD solamente]

Algunos discos DVD tienen escenas que han sido 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.



**Presione** *ANGLE* durante la reproducción para visualizar la pantalla de ángulo.



Presione ▲▼ para seleccionar el ángulo deseado.

#### Utilización de un menú de títulos [DVD solamente]

Algunos discos con películas, por ejemplo, vienen con dos o más títulos. Si el disco tiene un menú de títulos grabados, el botón TITLE podrá utilizarse para seleccionar el título de la película.

**Presione** *TITLE* durante la reproducción. Ahora se visualiza una lista de los títulos del disco.



Presione ▲▼ ◀▶ o *las teclas de números* para seleccionar el título deseado. Presione SET.

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

**Presione** *AUDIO* durante la reproducción para visualizar la pantalla AUDIO.

2 BONIBO;2 ENG <u>VICIEZACITIVO</u>	Presione ▲▼ (o ◀ ►) para seleccionar el ajuste deseado.
ELEQIR:∡▼ FIJAR:SET	Presione ► (o ◀) para ajustar. (DVD solamente)
DVD Karaoke (1 vocal) VOCA	L ON ++VOCAL OFF

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

Video CD

J

#### Utilización de un menú de DVD [DVD solamente]

 $|R \rightarrow | \rightarrow R$ 

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 proporcionan menús para audio e idiomas de subtítulos. Aunque los contenidos de los menús DVD y la operación cambian de disco a disco, a continuación se 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.



Presione ▲▼ ◀► o las teclas de números para seleccionar el ítem deseado. 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.

#### 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, hacia abajo, hacia la izquierda o hacia la derecha.



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Printed in Indonesia LSQT0453A S0401-0

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