

# Panasonic



DVD/VCR DECK Omnivision WS Operating Instructions Model No. PV-D4732/PV-D4732S



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













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.

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

(Ġuía para rápida consulta en español está incluida.)

LSQT0618B

Initial Setup (Connection

> Basic Operation

VCR Operation

DVD Operation

For Your

## 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.

#### POLARIZED OR GROUNDING PLUG 2

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. GROUNDING PLUG CAUTION:

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

#### POWER CORD 3

tampering with the plug.

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.

#### 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

combination should be moved

- · 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



with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

· Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.

#### OUTDOOR ANTENNA INSTALLATION

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 POWER SERVICE GROU ELECTRODE SYSTEM 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

- DO NOT SERVICE THIS PRODUCT YOURSELF 1
  - 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.
- HAVE THE SERVICE TECHNICIAN PERFORM A SAFETY CHECK 3 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.



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 ATTEMPT TO REPAIR THE UNIT YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CAUTION: LASER RADIATION WHEN OPEN DO NOT STARE INTO BEAM.

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

(Inside of product)

## FCC NOTE:

This equipment has been tested and found to comply with 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.





RF Coaxial Cable VJAS0196



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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

PLAY

• Use "dry" type head cleaning cassette only. (Part No. NV-TCL30PT is recommended.)

FND

- Follow cleaning tape instructions carefully. Excessive use of tape can shorten head life.
- If head clog symptoms persist, contact your nearest Factory Servicenter or authorized Servicenter (see p. 52).

## **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 Servicenter.

## **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 non-abrasive, 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** (TRACKING) ▲/▼ 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.





<u>V-Lock Control (to reduce picture jitter)</u> In Still mode, **CH** (TRACKING) ▲/▼ operate as a V-Lock control.

## Prevent Accidental Tape Erasure

Break off the tab to prevent recording. Record Tab Screw driver

Cover the hole with cellophane tape.

## **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: Power Consumption: Video Signal: Video Recording System: Audio Track: Tuner:	120 V AC, 60 Hz <u>Power On:</u> Approx. 32 watts, <u>Power Off:</u> Approx. 4 watts EIA Standard NTSC color 4 rotary heads helical scanning system 1 track (Normal), 2 channel (Hi-Fi Audio Sound)
Broadcast Channels: CABLE Channels:	VHF 2 ~ 13, UHF 14 ~ 69 Midband A through I (14 ~ 22), Superband J through W (23 ~ 36) Hyperband AA ~ EEE (37 ~ 64), Lowband A-5 ~ A-1 (95 ~ 99) Special CABLE channel 5A (01), Ultraband 65 ~ 94, 100 ~ 125
Input/Output Terminal: Input Terminal: Output Terminal:	Audio/Video Line Input/Output, RF Input/Output Audio/Video Line Input (Front) S-Video Output (DVD only), Component Video Output (DVD only) Audio Output 2 (L), (R)
Operating Temperature: Operating Humidity: Weight: Dimensions:	5 °C ~ 40 °C (41 °F ~ 104 °F) 10 % ~ 75 % 6.9 kg (15.2 lbs). 430 (W) x 118 (H) x 364 (D) mm 16-15/16" (W) x 4-5/8" (H) x 14-5/16" (D) inch
Discs Played (1) DVD-VIDEO Disc	5" (12 cm) single-sided single-layer 5" (12 cm) single-sided double-layer 5" (12 cm) double-sided double-layer (one layer per side) 3" (8 cm) single-sided single-layer 3" (8 cm) single-sided double-layer 3" (8 cm) double-sided double-layer 3" (8 cm) double-sided double-layer
(2) Compact Disc (CD-DA, VIDEO CD) Digital Audio Output: Pickup:	3" (8 cm) disc 3" (8 cm) disc Digital Optical Connector Wavelength: 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)**

	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 guality.
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 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**



## Front View of DECK



<u>nitial Setu</u>

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## Location of Controls (continued)

## Rear View of DECK

#### AC Power Plug



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

## On Screen Displays (VCR)

the recording speed when SPEED is pressed.

#### **Function & Channel Displays**



When a function button is pressed, e.g. PLAY, or you change channels, a 5-second display appears.

## Blank Tape/ No Video Signal Indications

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. 33) set to OFF, the TV screen will turn solid blue.

Function Status Current Time Channel VCR Status & Clock Displays To display or remove overlay at right, REC 12:00AM CH 02 -0:12:34 SP Counter Rec Time Remaining -0:25 → press DISPLAY. (OTR mode only. (SAP MONO see p. 21.) Broadcast Audio Tape Speed (See p. 6.) Being Received (See p. 26.) 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 VCB/TV selector is is monitored in Play mode. Timer Recording, or when One set to VCR. Touch Recording (OTR) is used. Flashes when Timer Recording is set, but a tape has **Power Indicator** not been inserted into DECK and Lights up when power is on. when a power interruption occurs during Timer Programming. VCR mode Indicator Lights up when DECK is VCR mode. **DVD** mode Indicator DVD . VCE 17:311 🛯 Lights up when VCB REC DECK is DVD mode. VCR REC Indicator Lights up during recording. AM **ANGLE Indicator** Clock/ Status/ Channel/ Speed Display Displays the current time. Briefly displays VCR Lights up before noon. Lights up when a scene status when a function button is pressed. Briefly recorded at different PM is not displayed. displays the channel number, or "L1" or "L2" when angles is detected. a channel or line input is selected. Briefly displays See p. 37. (DVD only).

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## Connections

## **Basic Connections**

- If your TV has AUDIO and VIDEO IN terminals, connect them to DECK for higher quality 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.



1 Disconnect antenna or cable from TV and connect to DECK.



#### WARNING -

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



# **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)
MP3	MP3	Linear PCM (It depends on the MP3 file)

\*1 The type of audio output from the connector can be selected by the Settings for DVD Operation. (See p. 46.)

\*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.

Manufactured under license from Dolby Laboratories. "Dolby," "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

## ■ DECK → Dolby Digital Decoder → Amplifier → Speaker

### or

## DECK → dts (digital theater systems) Decoder → Amplifier → Speaker

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-quality 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. 46). 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. 46).

• Video CDs and CDs can be played as usual.

#### Note:

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

Connecti

nitial Se

## Initial Setup for Basic Connections (Ready to Play)

## **Before doing Initial Setup**



### Turn TV on.

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.

## 3 [DECK → TV]

• Go to "Doing Initial Setup (Ready to Play)." (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 a DSS Receiver, it must be turned off.

## Doing Initial Setup (Ready to Play)

Press VCR on remote for VCR mode.

## **2** Plug DECK Power Cord into AC wall outlet. DECK comes on and auto channel and clock set starts.

- If screen below does not appear, check DECK TV connection and, if TV is tuned to channel 3, try switching it to channel 4.
- To change VCR's output channel, please refer to "VCR's Output Channel" on p. 19.



# Plugging the AC Power Plug into an AC outlet



Continued on next page ...



# **Reset Language, Channels, Clock**



#### **Press ACTION\*** to display MENU.

 PROGRAM functions 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 PROGAM.

- 2
- Language 1) Press ▲▼ to select language item.

SETISET



2) Press SET repeatedly.



For Spanish



For French



For English

3) Press ACTION to exit.

- Channels
- 1) Press ▲▼ to select "SET UP CHANNEL. and press SET.



 Press ▲▼ to select "ANTENNA," then press SET to set your antenna system ("TV" or "CABLE.")

SET UP CHANNEL
UTO SET EAK SIGNAL DISPLAY:OFF
SELECT:▲▼ SET:SET EXIT :ACTION

- 3) Press ▲▼ to select "AUTO SET," then press SET.
- If you use a Cable Box, set it to the PBS channel in your time zone.



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



1) Press **AV** to select "SET CLOCK." and press SET.



 Press ▲▼ to select "MANUAL," and press SET. (For Auto Clock Set, select "AUTO CLOCK SET.")

SET CLOCK
AUTO CLOCK SET
MANUAL TIME ZONE ADJUST : 0
SELECT:▲▼ SET:SET EXIT :ACTION

("TIME ZONE ADJUST" appears only when auto clock is set.)



- 3) Press ▲▼ and ◀ to select, then set the date, time, and DST (Davlight Saving Time).
- 4) Press ACTION to start Clock and exit this mode.



## Playback/ Record on a Tape





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

#### 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.
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Press CH ▲▼, or NUMBER keys

to select the channel.

- For "LINE" input, see p. 35.
- If channel is over 100, press 100 key then press the remaining 2 digits.

### 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.

## **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 (In STOP or

- REC. PAUSE mode),
- 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 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.





- \*1 Interactive DVD... May include multiple camera angles, stories, etc.
- \*2 Video CD with playback control... Particular scenes or information can be interactively selected from a menu that appears on the screen.

## Press POWER\* on the remote or DECK.

### **Press DVD** to select DVD mode.

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

### Press OPEN/CLOSE,

and then place a disc into the disc tray.



- Hold disc by its edges only (p. 4) with printed side up and use guides to place into tray.
   Use 3"(8 cm)
  - or **2** 5" (12 cm) disc.

**Press** *PLAY* to start playing. Disc tray closes automatically.



You may also close tray by pressing OPEN/CLOSE.

•	Data	reading	time	differs	with
	each	disc.			

#### <Example>

If an interactive DVD<sup>\*1</sup> or a Video CD with playback control<sup>\*2</sup> is used and TITLE MENU appears, go to step 5.





Using NUMBER keys starts playing automatically. <Example> 1 digit number 1 ••• 1

1 digit number1•••12 digit number $12 \cdots \ge 10 1 2$ 3 digit number $123 \cdots = 100 1 2 3$ 

Press *SKIP* ►►I or I◀◀ to go to next or previous menu screen.

• SKIP function not available with all discs. Please refer to disc jacket for operation information.

To return to menu (play stops) Press TITLE, MENU, or RETURN. (DVD) Press RETURN. (Video CD)

Press STOP to stop playing.

Press OPEN/CLOSE to eject the disc.

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

Press PLAY to release.

- Starting forward/reverse search during play 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 ►►I or I ◄◀ SKIP during play. Each press skips a chapter (DVD) or track (Video CD/CD).
  - **Pressing I** ◀◀ *SKIP* once midway through a chapter/track returns to the start of that chapter/track. Each additional press skips back one chapter/track.
  - **Pressing** *SKIP* ►►I or I ◄◀ during play started from menu on Video CDs may recall menu.

Current playback position



#### Still Picture or Pause

Press PAUSE/STILL during play.

Press PLAY to release.

- DVD/Video CD : DECK will enter still picture 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. 47)

### Slow Motion Picture (DVD/Video CD) Press FF/SLOW+ or REW/SLOW-

in 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 () 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 (  $\blacktriangleright$  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.

- Basic Operati<u>on</u>
- RESUME works only with discs for which elapsed play time is displayed during play.

### **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 disc for track numbers.
  - Press "1" to start at beginning of disc.

#### To Resume Menu use,

**Press STOP** and **press PLAY**, then the menu will be displayed.

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 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**



ADD/DLT PROG SELECT ▲▼⋖► SET

POWER

Press PROG

to end programming.



#### To Enter More Programs,

press AV to select and press SET to set an unused program number, and then repeat step 2.

Or

Press PROG

to exit.

VCR mode Indicator



- · The "Timer" Indicator lights up on DECK.
- · You can do Timer Recording with the power on or off.
- "TIMER REC WILL START SOON" appears on-screen for 2 minutes before Timer Recording starts. 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)



Press PROG

to display Program List.



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

### To cancel a Timer Recording in progress...

Hold down STOP on VCR mode for a few seconds to cancel the Timer Recording.

(The "TIMER" Indicator goes out on Multi Function Display.)

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



### To Replace program...



Repeat Step 2 (p. 24) to set new programs.

or To Clear program...

Press ADD/DLT.



DD/DLT.



### Press PROG

to end the programming.

## Notes

- If you are using a Cable Box, the VCR's channel for Timer Recording must be set to the Cable Box intput 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 re-enter 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.

# 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.

STOP

STOP

SAP MONO

(«STEREO <

(SAP MONO

(«STEREO 

12:00AM

12:00AM

CH 02 0:00:00

CH 02 0:00:00

## **Receivable Broadcast Types**

The following are possible audio broadcast types and onscreen displays.

The signal being received is indicated with an "(c)" 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.



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.





Equipped with **dbx**<sup>®</sup>-TV Noise Reduction for true MTS reproduction. **dbx**<sup>®</sup>-TV Noise Reduction is required for good stereo separation and audio fidelity. **dbx**<sup>®</sup> is a registered trademark, and is licensed by **dbx**<sup>®</sup> Technology Licensing.



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

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## Audio Mode for Recording

## Press AUDIO (SAP/Hi-Fi)

to display audio mode.

(Display disappears after 5 seconds.)

2

(©STEREO (©SAP MONO Press AUDIO (SAP/Hi-Fi) repeatedly to select desired mode.

- Refer to "Receivable Broadcast Types" on p. 26.
- Arrow indicates selection.

3

Do a recording. See p. 21.

A	Audio Mode for Playback			
1	<b>Start playback.</b> See p. 20.			
2 Press AUDIO (SAP/Hi-Fi) to display audio mode.				
3	HIFI:L/R ◀ HIFI:L	Press AUDIO (SAP/Hi-Fi) repeatedly to select desired mode.		
	HIFI: R NORMAL	• Select "HIFI (L/R)" or "HIFI (L)" or "HIFI (R)" to listen		

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

Arrow indicates selection.

• Display disappears after 5 seconds.

## 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.

Uperation

# **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 kevs.

2

- 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,

→ press POWER to turn selected unit on or off.

- See table below for controllable functions in each mode.
- Notes
  Repeat setup after remote battery replacement.
  Remote will not control every TV, Cable Box, or DSS 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	TV	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	TAPE POSITION, COUNTER RESET , SPEED, REC	VOL +/-	POWER, ENTER, NUMBER keys (except 100key), CH ▲/▼

\* Bold: VCR Function Bold Italic: VCR and DVD Functions Italic: DVD Function 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        Quasar      01, 02        RCA      02        GE      02        Zenith      02        Magnayoy      02	2      Sharp      06, 07        3      Sony      08        3      Toshiba      09        4      Sanyo      10
Magnavox 0	5 Fisher 10

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

Archer    44, 06, 01, 120, 05, 63, 126      Cableview    29, 09, 01, 63, 120, 44, 42, 30      52, 04, 124, 126      Citizen    44, 52, 30, 63, 42, 04, 124, 126      Curtis    08, 09, 25, 61, 53, 87      Century    44, 51, 75, 59, 126      Cabletenna    29, 09, 01, 63, 120, 44, 126      Diamond    29, 09, 01, 63, 120, 44, 126      Diamond    29, 09, 01, 63, 120, 44, 126      Eagle    62, 40, 22, 13, 58, 20, 26, 107      Eastern    28, 29, 130      Explorer    08, 09, 25, 61, 53, 87      Gemini    30, 04, 124      General Electric    01, 57, 120      General Electric    01, 57, 120      General Instruments . 01, 84, 83, 34, 03, 02, 04, 55    65, 66, 67, 68, 120, 106, 121, 122, 115, 117, 118, 124      Gerrard    44, 42, 63, 29, 30, 52, 04      124, 126    124, 126      Hamlin    41, 14, 15, 28, 102, 104, 103, 130      Hitachi    31      Jerrold    01, 84, 83, 34, 03, 02, 04, 55, 65, 66      67, 68, 120, 106, 121, 122, 115, 117, 118, 124      Jasco    30, 04, 124      Macom    31      Magnavox    26, 112	Oak Sigma    46, 11, 129, 101      Panasonic    17, 16, 08, 87, 109      Philips    23, 24, 20, 13, 07, 50, 128, 129      Pioneer    06, 05, 12      Pulsar    04, 42, 63, 44, 30, 52, 124, 126      Quest    06, 05, 12      Radio Shack    44, 51, 75, 59, 126      RCA    17, 16, 08, 87, 109      Realistic    44, 51, 75, 59, 126      Recoton    44, 51, 75, 59, 126      Recoton    44, 51, 75, 59, 126      Regal    41, 14, 15, 28, 102, 104, 103, 130      Regency    28, 29, 130      Rembrandt    44, 42, 63, 29, 01, 32, 39, 120, 126      Samsung    42, 06, 32, 05, 40      Scientific Atlanta    08, 09, 25, 61, 53, 87      Sheritech    27      Signal    26, 112      SL Marx    42, 06, 32, 40, 43, 44, 52, 63, 126      Sprucer    17, 16, 08, 87, 109      Standard Components    32, 39, 42, 44, 126      Stargate    04, 42, 32, 40, 63, 44, 30, 52, 06      Telexiew    40, 19, 38, 32, 42, 06      Telexotion    77, 127      Telecaption    77, 127      Telecaption    77, 127
DSS Brand Code Numbers	
Toshiba	Optimus
Hitachi/ Hughes	Panasonic
Drake      93        Magnavox      94, 95        Uniden      94, 95	RCA

### 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.

# Operation VCR

# **Tape Operation**

## 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.





### Auto Play

Insert a tape  $\rightarrow$  Power comes on,  $\rightarrow$  Play starts if there is no record tab (see p. 6).

### Auto Rewind

Play Fast Forward → Tape end → Rewind

### Play Auto Eject

(Repeat Play must be off)

Play → Tape end → Rewind

➤ Tape ejects if there is no 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.



• No indication appears on-screen.







## **POSITION** o normal screen.

Note

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

# **Copying Your Tapes (Dubbing)**



- "L1" or "L2" lights up on Multi Function Display (about 4 seconds) when LINE1 or LINE2 is selected.
- LINE1: For rear audio/video connection. LINE2: For front audio/video connection.

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

Dubbing tapes protected with Copy

Guard will result in poor quality

recordings.

Note

• 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.

Operation


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.

### 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** ▲▼ to select the desired angle.

Number of angle being played back.



### Picture Zoom (DVD only)

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

**Press** *ZOOM* repeatedly to change display as follows.

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

or



ANGLE Indicator

- 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.



## **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.)





<Example>

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.



Press MENU in Play mode to display DVD MENU.

<Example>



<Example>

#### Press ▲▼◀▶ or *NUMBER keys* to select an item, and press *SET* or *PLAY* to perform. • "Pressing *SET* or *PLAY*" is

not necessary when using NUMBER keys. Repeat step 2 if there is

more than one menu.



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### Program Play (Video CD/CD)

You can program specific tracks and order of play.

Press ACTION to display MENU.



#### Press ▲▼ to select "PLAY MODE," and press SET

to display.

3

#### Press AV

to select "PROGRAM PLAY," and press SET to display.

Δ

5

#### Press AV4>

to select a track number (Track numbers on disc are displayed.), and press SET.

- Repeat step 4 to select another track.
- The selected track is added on the right side.
  - Press AV4>

to select "START," and press SET to start play of programs in the sequence selected.

• To cancel, press STOP during play, then **press** CLEĂR.



## **Ready Checklist**

DECK is in DVD mode, press DVD.

□ Video CD or CD is inserted.

## **Disc Operation (continued)**

## Random Play (Video CD/CD)

Tracks are played in a random order.



## Ready Checklist

DECK is in DVD mode, press DVD.

#### \*Important:

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



### Setting the Sound Output Level

Audio recorded on a DVD or Video CD often incorporates a dynamic range of sound.

This means that, when compared to a music CD, etc., the average volume is generally lower and the peaks may be higher. This unit can be set so that the average volume is increased automatically.

#### Press AUDIO CONTROL repeatedly to change "ON" ↔ "OFF."

• "ON" or "OFF" lights up on Multi Function Display (about 3 seconds) when press AUDIO CONTROL.

	Audio Control "OFF"	Audio Control "ON"
DVD /Video CD	Volume level is low.	Volume level is increased automatically when played back.
Music CD		

• "ON" is set ..... When a DVD or Video CD is played back, the average volume is increased.

• "OFF" is set .... The volume level recorded on the disc is played back just as it is.

### Notes

• When audio equipment is connected, setting the Sound Output level to "OFF" is recommended.

• If the sound becomes abnormal while playing a disc, set the Sound Output level to "OFF."





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



### Note

42

• For repeat play in VCR mode, see p. 32.

## **MP3 Playback Operation**

## **MP3 Playback**

You can use this unit to play MP3 format audio recorded for personal use with a computer etc. onto a CD-R or CD-RW. Play may not be possible in some cases due to the condition of the recording.



#### Forward/Reverse Search Press FF/SLOW+ or REW/SLOW- during play. Press PLAY to release.

- Search speed, slow at first, increases with each additional press of the button up to 4 levels.
- Forward/Reverse Track Skip Press SKIP ►► I or I ◄◀ SKIP during play. Each press skips a track.
  - If pressed within first 3 seconds of playback, skips to the previous track. If over 3 seconds, returns to first of that track. (I **<** *SKIP* only.)
  - Only the SKIP >> I or I < SKIP button can be used for track skip selection during playback.
     Place unit into Stop mode before performing folder/ file selection (see above right.)

Press STOP to stop playing.

**Press OPEN/CLOSE** to eject the disc. The MP3 MENU is closed automatically.

- MP3 playback (During STOP mode)
  - 1) **Press ▲**▼ to select an MP3 file (,).
  - 2) Press SET or PLAY to start playback.
- Select folder (During STOP mode) 1) Press ▲▼ to select a folder (□).
  - 2) **Press SET** to display files/folders
  - contained in the folder.
- Select parent folder (During STOP mode)
  - 1) **Press ▲▼** to select a folder ( <u>⊢</u>).
  - 2) **Press SET** to make changes to the previous directory display.

### Note

- Folder area operation cannot be done. Only file area operation is possible.
- Select PLAY MODE (During STOP mode)
  - Press ◀► to move cursor to PLAY MODE.
  - Press ▲▼ to select the desired PLAY MODE (see below).

### [PLAY MODE]

#### NORMAL:

All MP3 files are selected and played back one time only.

### SINGLE REPEAT:

The selected MP3 file is played back repeatedly.

### FOLDER REPEAT:

The MP3 files contained in the selected folder are played back repeatedly.

However, folders below the selected folder are not played back.

### DISC REPEAT:

All MP3 files are played back repeatedly.

prestect an item, and **SET**.

Kalitigeræggæggygjelsjægfiægtendfiærdetthes object, obæn obrecksie al. disc



Stele Citaris

TV MODE (See p. 47.)

Korbasettetatokandelukaettitese, launtijillea/002/007 the rausoffor all discs

SET

MENd Sons

## Settings for DVD Operation (continued)

### Audio Output

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



DISC LANGUAGES

SELECT SET FND

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



TV MODE : Letterbox 4:3 PARENTAL LOCK : LEVEL 8

SET

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

#### "LPCM (DVD)" selections

- OFF: Linear PCM of less than 48 kHz/16 bit is output. When plaving 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:

#### "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 onlv1.

#### "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 Δ and go to step 2 to setup another item. Or, press ACTION twice to exit.



## **Ready Checklist**

DECK is in DVD mode, press DVD.

Type of amplifier	Reco	Recommended 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	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)".1
- \*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.



## Language Code List

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENUS" (see p. 45).

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
PLEASE SET CLOCK BY PRESSING ACTION KEY	If you attempt to set or review a Timer Recording and the Clock is not set	24
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	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
END : PLAY VCR LOCK ACTIVATED	If you press a function button other than STOP/EJECT or POWER while DECK is in VCR Lock mode	33
REMOTE CONTROL IS SET TO CABLE/DSS MODE USE VCR : VCR KEY USE DVD : DVD KEY	If you press an invalid key on the remote while in CABLE/DSS mode	28 29 34
REMOTE CONTROL IS SET TO TV MODE USE VCR : VCR KEY USE DVD : DVD KEY	If you press an invalid key on the remote while in TV mode	28 29 34
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 DVD/VIDEO CD/CD TO VHS	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, 33)</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/DSS box (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 a 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 LINE.</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>
During 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. 33)</li> <li>Make sure Remote is in proper mode.(p. 28)</li> <li>Make sure Timer Recording 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. (p.9)</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>
PROG buttons do not respond	<ul> <li>PROG functions 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 DVD/VCR mode. (p. 28)</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. 44)
Audio soundtrack and/or subtitle language is not the one selected at the initial settings	<ul> <li>If the audio soundtrack and/or subtitle language selected at DVD initial settings does not exist on the disc, it will not be accessible.</li> </ul>
No subtitles	<ul> <li>Subtitles appear only when available on disc.</li> <li>"OFF" is selected at the changing subtitle language. Select "ON" at the "Subtitle Languages" section (p. 36) 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. 37)
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

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Information For Your 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

#### Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product	Parts	Labor	Service	Contact Number
Camcorder	One (1) Year (except CCD Image Sensor) CCD Image Sensor - 6 (Six) Months	Ninety (90) Days Ninety (90) Days	Carry-In or Mail-In	1-800-211-PANA(7262)
DVD/VCR Deck, A/V Mixer	One (1) Year	Ninety (90) Days	Carry-In or Mail-In	1-800-211-PANA(7262)
TV/VCR, TV/DVD, TV/DVD/VCR Combination	One (1) Year (except CRT) CRT - Two (2) Years	Ninety (90) Days Ninety (90) Days	Carry-In: 21" CRT and Smaller In-Home or Carry-In: 22" CRT and Larger	1-800-211-PANA(7262)
TV/HDR Combination	One (1) Year (except CRT) CRT - Two (2) Years	Ninety (90) Days Ninety (90) Days	In-Home or Carry-In	1-888-843-9788
Rechargeable Batteries (in exchange for defective item)	Ten (10) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)
Tape (in exchange for defective item)	Five (5) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)
Memory Cards (in exchange for defective item)	Ninety (90) Days	Not Applicable	Carry-In or Mail-In	1-800-211-PANA(7262)

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product or arrange for in-home service, as applicable, during the warranty period.

If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

#### Carry-In, Mail-in or In-Home Service

For Čarry-In, Mail-In or In-Home Service (as applicable) in the United States call toll free contact number listed above or visit Panasonic Web Site: http://www.panasonic.com

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910. In-Home service, if applicable, requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain inhome repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

#### Limited Warranty Limits And Exclusions

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

#### THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY DEFACL OF THIS WARRANTOR IS A CONSISTENT OF A DAMAGES AND A DAMAGES

**BREACH OF THIS WARRANTY.** (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer, loss of media or images, data or other memory or recorded content. The items listed are not exclusive, but are for illustration only.)

## ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

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 exclusions 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 warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

## **Customer Services Directory**

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

**1-800-211-PANA (7262),** Monday-Friday 9 am-9 pm; Saturday-Sunday 9 am-7 pm, EST. or send e-mail : consumerproducts@panasonic.com

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

#### Accessory Purchases:

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

#### Service in Puerto Rico

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

As of February 2002

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For Youi

## Spanish Quick Use Guide/ Guía para rápida consulta

### **Conexiones/Configuracion Inicial (READY TO PLAY**

## Favor realice la conexion de antena o cable antes de conectar el cordon de AC a la toma de pared.

Conectando el cordon de AC de la DECK en toma de pared iniciara automaticamente la busqueda de canales y colocacion de tiempo.

#### Conectando

#### Para Ant/Cable-DECK-TV

- 1 Conecte Ant/Cable a la entrada de antena de la DECK (DECK In)
- Conecte la salida de la DECK (DECK Out) a la entrada de antena de la TV (TV In) con el cable-accesorio RF incluido.



#### Para Sistema Digital de Satelite (DSS)/ Convertidor de cable-DECK-TV

- Conecte la salida del convertidor de cable a la "DECK In" con el RF cable accesorio incluido.
- Conecte "DECK Out" a la "TV In" con el cable-accesorio incluido.

### Realizando configuracion inicial

- **1** Presione el boton DECK del control remoto para dicha modalidad. Encienda la TV y cambie a canal 3.
- 2 Conecte cordon de AC de la DECK a la toma de pared. La DECK se activara e iniciara busqueda de canales y colocacion de tiempo.
  - Si la pantalla abajo no aparece cheque la conexion DECK-TV y si la TV fue cambiada a el canal 3,trate cambiando a el canal 4.
  - Para cambios a el canal de salida de la DECK favor hacer referencia a "VCR's Output Channel" (p. 19).

Conectando cordon de AC a la toma de pared.



Al inicio, el idioma de la pantalla está fijado a inglés. Para cambiar el idioma consulte la página 18.

Si usa convertidor de cable solo enciendala y seleccione el canal PBS en su horario de uso u horario de zona. Si utiliza receptor DSS este debe estar apagado.

#### - PRECAUCION

Si se sobre ajusta "NUT TYPE" el cable coaxial RF podria dañar las terminales de conexion. Ajusta ligeramente utiliza solo los dedos.



**3** Selecciones se realizaron automaticamente cuando la configuracion termino, esta pantalla aparece.



Si "AUTO CLOCK SET IS INCOMPLETE" aparece, coloque manualmente el tiempo, vealo abaio.

AUTO CLOCK SET IS INCOMPLETE PLEASE SET CLOCK BY PRESSING ACTION KEY

#### **Realizando configuracion inicial**

Si la colocacion de tiempo fue incompleta.

1 Presione la tecla ACTION en el control remoto para visualizar la pantalla del menú RELOJ.



Presione ▲ ▼ para seleccionar el mes y SET para ajustar. De la misma forma, seleccione y ajuste la fecha, año, hora y DST (Hora de Verano).



**3** Presione dos veces la tecla ACTION para poner el RELOJ en marcha y salir.

#### Operaciones básicas para la reproducción

- Inserte un cassette,
  - La alimentación del DECK se activa. En la Pantalla de Visualización Multi Función se ilumina "VCR".
- Presione PLAY para reproducir el cassette.
   Si el cassette no tiene lengüeta de prevención de grabación (página 6), se

inicia la reproducción automáticamente.

Detalles especiales durante la grabación

- Presione FF/SLOW+ o REW/SLOW- para búsqueda de escenas hacia delante/ hacia atrás. Presione PLAY para liberar. Luego de que la búsqueda se ha iniciado, cada vez que presione FF/SLOW+ o REW/SLOWse cambia la velocidad como sigue: [SLP] aprox. 21X ↔ aprox. 9X [LP] aprox. 9X ↔ aprox. 7X [SP] aprox. 7X ↔ aprox. 3X Si la imágen se interrumpe con la velocidad de 21x, 9x o 7x, cambie la velocidad a 9x, 7x o 3x.
- Presione PAUSE/STILL para imagen Fija (Congelada).
  - Presione PLAY para liberar.
- Presione PAUSE/STILL en el modo de imagen fija para imágenes cuadro a cuadro. Presione PLAY para liberar.
- Presione FF/SLOW+ o REW/SLOW- en el modo de imagen fija para imágenes cuadro a cuadro. Presione PLAY para liberar.
- 3 Presione STOP para detener el cassette.
- Presione REW/SLOW- o FF/SLOW+ en el modo de parada para rebobinado/avance rápido del cassette.
- Presione EJECT en el control remoto, o STOP/EJECT en el DECK para expulsar el cassette.

#### Operaciones básicas para la grabación

- Inserte el cassette con lengüeta de protección de grabación (pág. 6).
- 2 Presione CH ▲/▼, o las teclas de números para seleccionar el canal.
- **3** Presione SPEED para seleccionar la velocidad de grabación (pág.6)
  - SP = Reproducción estándar,
  - LP = Larga duración,
  - SLP = Superlarga duración.
- 4 Presione REC para comenzar a grabar.
  - Para eliminar escenas indeseadas, presione PAUSE/STILL para pausar, y al presionar nuevamente se reanuda la grabación.
  - No podrá ver otro canal durante la grabación.

#### Presione PROG

para visualizar PROGRAM.

- 2 FECHA INICIO PARADA CA HOY SLP ELEGIR FECHA DE INICIO ELEGIR : A Y FUAR :: SET TERMINAR: PROG
- Para ajustar la FECHA de grabación, presione ▲▼ para seleccionar: 1-31 = una vez, o DIARIO = a la misma hora de lunes a viernes, o SEMANA = a la misma hora cada semana y presione SET para ajustar.

#### Orden para elegir

Ejemplo Fecha de hoy —



2) Para ajustar los ítems que quedan, presione ▲▼ para seleccionar y presione SET para ajustar los tiempos de INICIO/ PARADA, CANAL, o entrada de LÍNEA (pág. 35), y velocidad del cassette (SP, LP, SLP). Presione PROG para finalizar PROGRAM.



Presione ▲▼ para seleccionar un número que no está usando para ingresar mas programas y presione SET para ajustar. Luego repita el paso 2. O

Presione nuevamente PROG para salir.

Grabación de un toque (grabar en marcha),

**Presione REC** repetidamente para ajustar la hora de grabación (30 min - 4 horas).

• La videograbadora termina la grabación a una hora programada.

←Grabación normal → 0:30 → 1:00 、

#### Operaciones básicas del DVD 1 Presione POWER en el control remoto o el aparato. OPEN/ <u>2</u> 3 Presione DVD para seleccionar el modo DVD. POWFR CLOSE 1) Presione OPEN/CLOSE. 2) Ponga un disco en la bandeja de disco. 3) Sujete el disco sin tocar ninguna de sus superficies. DVD DVD TV póngalo con el lado donde esté impreso el título PLAYhacia arriba, alinéelo con las guías y póngalo en su posición apropiada. REW/ FF/ Disco de 3"(8 cm) Disco de 5" (12 cm) SLOW+ SI OW-Presione PLAY para iniciar la reproducción. Δ STOP-La bandeja del disco se cierra automáticamente. ര്ന ്ന് PAUSE/ Si está usando un DVD interactivo (Interactive DVD) STILL (5) (6) NUMBER o un Vídeo CD con contol de reproducción keys Ð (playback control) y aparece un menú de títulos (TITLE MENU) en la pantalla, siga al paso 5. (100) ത Presione ▲▼◀ ► o las teclas numéricas para ā . . 5 seleccionar el artículo deseado. SKIP **I** SKIP Presione SET para la reproducción. (HT) SFI FCT Si usa las teclas numéricas, la reproducción ▲▼◀▶ comienza automáticamente. 2007 SET-Presione STOP para parar la reproducción. 6 0\_0 ۲ Presione OPEN/CLOSE para expulsar el disco. Para buscar una escena particular Búsqueda hacia adelante Presione FF/SLOW+ en el modo de reproducción. Búsqueda hacia atrás Presione REW/SLOW- en el modo de reproducción. (Para liberar, presione PLAY) 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 salta cada ves que se oprime la tecla. Salto hacia atrás Presione I SKIP en el modo de reproducción. Para ver una imagen fija Presione PAUSE/STILL durante la reproducción. (Para liberar, presione PLAY) 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 la tecla. (Para volver a la reproducción normal, presione PLAY.) Para ver en cámara lenta (DVD/Vídeo CD) Presione FF/SLOW+ o REW/SLOW- en el modo de imagen fija. (Para liberar, presione PLAY)

## 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.).

1 5

**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.



- 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

### Fijaciones iniciales

**Presione DVD** para seleccionar el mode DVD.

**Presione ACTION en el modo de parada** para visualizar MENU.

#### 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 fijo" 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.

4 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.



**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 / Japonesa : Origini : Se seleccionará el idioma original de cada disco.

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

#### Seleccione "SUBTITULO"

(Fijación de fábrica)

- 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 / Japonesa : OTRO \*\*\*\* : Se puede seleccionar el otro

idioma.

#### Seleccione "MENU"

(Fijación de fábrica : inglés)

Inglés / Español / Francés / Japonesa :

**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.

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

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

SONIDO: 2 ENG VOZILAGTIVO	<b>Presione</b> ▲▼ (o ◀►) para seleccionar el ajuste deseado.
ELEGIR : FIJA	<b>Presione</b> ► (o ◀) para ajustar. (DVD solamente)



## 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. 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.

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