# marantz®

Model DV6400 User Guide

Super Audio CD/DVD Player













## WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.



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



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## **CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

#### ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

#### NOTE:

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

#### Operating Environment

Operating environment temperature and humidity:

- +5 C to +35 C (+41 F to +95 F); less than 85%RH (cooling vents not blocked) Do not install in the following locations
- Location exposed to direct sunlight or strong artificial light
- · Location exposed to high humidity, or poorly ventilated location

#### LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

#### USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM (WARNING LOCATION: INSIDE ON LASER COVERSHIELD)

#### Information to User

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

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

#### NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### CAUTION:

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

This product is for general household purposes. Any failure due to use for other than household purposes (such as long

- term use for business purposes in a restaurant or use in a car or ship) and whichrequires repair will be changed for even during the warranty period.

Do not remove the cover from the equipment.

Do not insert anything into the equipment through the ventilation holes.

Do not handle the mains lead with wet hands. Make a space of about 0.1 meter around the unit.

#### IMPORANT NOTICE [For U.S. model]

The serial number for this equipment is located on the rear panel. Please write this serial number on your enclosed warranty card and keep it in a secure area. This is for your security.

## IMPORTANT SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- Read Instructions All the safety and operating instructions should be read 1. before the product is operated.
- 2 Retain Instructions - The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings - All warnings on the product and in the operating instructions should be adhered to
- 4. Follow Instructions - All operating and use instructions should be followed.
- 5. Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Attachments Do not use attachments not recommended by the product 6 manufacturer as they may cause hazards.
- 7 Water and Moisture - Do not u se this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
- Accessories Do not place this product on an unstable cart, stand, tripod, 8 bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- CART A product and cart combination should be 9 moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



10. Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and toprotect it from overheating,

andthese openings must not beblocked or covered. The openings should never be blocked byplacing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or themanufacturer's instructions have been adhered to.

- Power Sources This product should be operated only from the type of power 11 source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions
- Grounding or Polarization This 12. product may be equipped with a polarized alternating-current line plug (a plug having one blade



wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert theplug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

- 13 Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- Protective Attachment Plug The product is equipped with an attachment plug 14. having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
- Outdoor Antenna Grounding If an outside antenna or cable system is connected 15. to the product, be sure the antenna or cable systemm is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard 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. See Figure 1.
- 16. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

- Power Lines An outside antenna system should not be located in the vicinity 17. of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 18 Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 19. Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Servicing Do not attempt to service this product yourself as opening 20 or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- Damage Requiring Service Unplug this product from the wall outlet and 21. refer servicing to gualified service personnel under the following conditions: When the power-supply cord or plug is damaged. а
- If liquid has been spilled, or objects have fallen into the product. b.
- If the product has been exposed to rain or water. C.
- If the product does not operate normally by following the operating instructions. d. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way, and e
- When the product exhibits a distinct change in performance this indicates f. a need for service.
- 22. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 23. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- Wall or Ceiling Mounting The product should be mounted to a wall or 24 ceiling only as recommended by the manufacturer.
- 25. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



NEC - NATIONAL ELECTRICAL CODE

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

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MAINTENANCE

#### INTRODUCTION

The serial number of this product may be found on the back of the DVD player. No others have the same serial number as yours. You should record the number and other vital information here and retain this book as a permanent record of your purchase to aid identification in case of theft. Serial numbers are not kept on file.

Date of Purchase	
Dealer Purchase from	
Dealer Address	
Dealer Phone No.	
Model No.	
Serial No.	

#### About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. 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.

Apparatus Claimas of U. S. Patent Nos, 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.

#### Supplied Accessories

Please check to make sure the following items are included with the main unit in the carton.



#### Symbols Used in this Manual

The following symbols appear below in some headings and notes in this manual, with the following meanings.

DVD-A	Description refers to playback of DVD-Audio discs.
DVD-V	Description refers to playback of DVD-Video discs.
CD :	Description refers to playback of Audio CDs.
SUPER . AUDIO CD	Description refers to playback of Super Audio CDs.
MP3	Description refers to playback of discs formatted with MP3.
VCD	Description refers to playback of Video CDs.
JPEG	Description refers to viewing of JPEG discs.
WMA :	Description refers to playback of discs formatted with WMA.
QUICK	Description refers to the items to be set in the QUICK mode.

#### **Playable Discs**

The following discs can be played back on this DVD player.



trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

This player conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL.

Some discs include region codes as shown below.



 The number inside the symbol refers to a region of the world, and a disc encoded in a specific region for-mat can only be played back on DVD players with the same region code.

The following discs cannot be played back on this DVD player.
DVD with region codes other than 1 or ALL.

- DVD-ROM
- DVD-RAM (Never play back, otherwise malfunction may result.) CD-ROM
- VSD

- CDV (Only plays back the audio part.)
  CD-G (Only plays back the sound.)
  CD-R/CD-RW (Only plays back the discs which Audio CD/MP3/JPEG/WMA is recorded.)
  CD-R/CD-RW back otherwise malfunction may
- CD-I (Never play back, otherwise malfunction may result.)
- Photo CD (Never play back, otherwise malfunction may result.)

#### Any other discs without compatibility indications.

#### **Disc Types** $\prec$

#### [DVD-Audio]

DVD-Audios are divided into several large sections called "groups" and smaller sections called "tracks." Numbers are alloted to these sections. These numbers are called "group numbers" and "track numbers."



#### [DVD-Video]

Data on a DVD is divided into sections called "titles," and then into subsections called "chapters," each of which is given a title or chapter number. Playback conditions are preset on some DVD-Video discs, and these playback conditions take priority over user operations on this player. If a function you selected does not run as desired, refer to the manual accompanying the disc.



#### [Audio CD, Video CD, Super Audio CD]

Data on an Audio CD, a Super Audio CD, or a Video CD is divided into sections called "tracks," each of which is given a track number.



#### ABOUT THE PBC FUNCTION OF VIDEO CD

This unit conforms to ver.1.1 and ver.2.0 of Video CD standard, with PBC function.

Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.

Ver.2.0 (with PBC function): While using a Video CD with PBC function, "PBC" appears on the screen and the display.

What is PBC? "PBC" stands for the Playback Control. You can play interactive software using menu screens. Refer to instructions in the Video CD.

#### NOTE:

When playing Video CDs with PBC function, some operations (e.g., select and repeat tracks) cannot be performed unless the function is cancelled temporarily (refer to page 16).

#### [MP3, JPEG, WMA]

Data on a MP3 is divided into sections called "groups," and then into subsections called "tracks," each of which is given an album or track number.



#### CAUTION:

- Use caution not to pinch your finger in the disc slot.
- Be sure to remove a disc and unplug the AC power cord
- from the outlet before carrying the DVD player.

 Analog 5.1-channel Dolby and DTS surround output This player is equipped with analog 5.1-channel

Dolby and DTS surround audio out jacks for playback.

#### Progressive Scan system

Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional television signals.

Still/fast/slow/step playback

Various playback modes are available including still pictures, fast forward/reverse, slow motion and step frames.

 Random playback for Audio CD, MP3, Super Audio CD, JPEG, DVD-Audio, and WMA This player can shuffle the order of tracks to play

them in random order. • Program playback for Audio CD, MP3, Super Audio CD, JPEG, DVD-Audio, and WMA

You can program the order of tracks to play them in any desired order.

- DVD menus in a desired language You can display DVD menus in a desired language, if available on a DVD.
- Auto standby

When the screen saver program is activated for 35 minutes, the power is automatically turned off.

 Subtitles in a desired language You can select a desired language for the display subtitles, if that language is available on a disc.

 Selecting a camera angle You can select the desired camera angle, if a disc contains sequences recorded from different angles.

- Choices for audio language and sound mode You can select the desired audio language and sound mode, if different languages and modes are available on a disc.
- Parental lock

You can set the control level to limit playback of discs which may not be suitable for children.

Automatic detection of discs

This player automatically detects if a loaded disc is DVD-Video, DVD-Audio, Super Audio CD, Audio CD, MP3, JPEG, or WMA.

Plaving an MP3 disc

You can enjoy MP3 files which are recorded on CD-R/RW.

Direct Search

You can search the desired title, chapter, and track with numeric button during playback or in stop mode.

#### On-screen display

Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as program playback), on the TV screen using the remote control.

#### AUDIO-EX Mode

You can enjoy higher quality audio by stopping the video signal and display.

Search	
Group search:	Search for the group designated by
	user is possible.
Page search:	Search for the page designated by
	user is possible.
Chapter search	:Search for the chapter designated by
	user is possible.
Title search:	Search for the title designated by user
	is possible.
Track search:	Search for the track designated by
	user is possible.
Time search:	Search for the time designated by
	user is possible.
Repeat	·

nopear	
Chapter:	Repeated playback of the chapter of the disc being played is possible.
Title:	Repeated playback of the title of the disc being played is possible.
Track:	Repeated playback of the track of the disc being played is possible.
ALL:	Repeated playback is possible. (exclude DVD-Video)
A-B:	The part between A and B designated by user is possible.
Group:	Repeated playback of the folder of the MP3/JPEG/WMA/DVD-Audio disc being played is possible.

#### • Zoom

2-time or 4-time magnified screen can be displayed.

### Marker

The part designated by user can be called back.

#### Resume Play

User can resume to playback from the part at which the play was stopped even if the power turn off.

 Component Video Out Jacks Jacks located on the back of the DVD Player which

are used to send high-quality video to a TV via Component Video In Jacks.

Bit rate indication

DRC (Dynamic range control)

You can control the range of sound volume.

 Displaying a JPEG picture Kodak Picture CDs can be played. Still images stored

in JPEG format on CD-R/RW can also be played.

Reproducing WMA data

You can enjoy WMA files which are recorded on CD-R/RW.

"Kodak Picture CD COMPATIBLE" is trademark of Eastman Kodak Company.

"WMA" (Windows Media Audio) is a new audio codec developed by Microsoft® in the United States of America.

#### **FUNCTIONAL OVERVIEW**

#### **FRONT PANEL**



#### REMOTE CONTROL



The buttons with circled numbers can only be operated with the remote control.

- 1. POWER Button [page 16]
- 2. Disc loading tray
- PLAY Button [page 16] 3.
- STOP Button [page 16] 4.
- PAUSE Button [page 16] 5.
- Cursor Buttons [page 16] 6. Use when making settings while watching the display on
- a TV screen.
- 7. MENU Button [page 16]
   8. ENTER Button [page 16]
- 9. SETUP Button [page 25]
- 10. ►►I(SKIP UP/FWD) Button [page 18] Plays back from the beginning of the next chapter or track. Hold down to fast forward playback.
- 11. Idd(SKIP DOWN/REV) Button [page 18] Plays back from the beginning of the current chapter or track. Hold down to fast reverse playback.
- 12.
- **OPEN/CLOSE Button [page 16]**
- 13. AUDIO EX. Button [page 16]
- 14. Display, Remote Sensor Window
- 15. A-B REPEAT Button [page 19]
- 16. REPEAT Button [page 19]
- 17. ZOOM Button [page 17]
- CLEAR Button [page 18]
   ANGLE Button [page 23]
- Press to change the camera angle to see the sequence being played back from a different angle. 20. RETURN Button [page 16] 21. SEARCH MODE Button [page 18]

- 22. ◄◄(FR SEARCH) Button [page 17] 23. ►► (FF SEARCH) Button [page 17]
- 24. SUBTITLE Button [page 23]
- Press to select a desired subtitle language.
- 25. TOP MENU Button [page 16]
- 26. DISPLAY Button [page 21]
- 27. AUDIO Button [page 22]
  - Press to select a desired audio language or sound mode.
- 28. Numeric Buttons [page 18]
- 29. MODE Button [page 19]
- 30. AUDIO EX. Indicator
- This indicator lights when the AUDIO EX. button is ON. SUPER AUDIO CD Indicator 31.
- This indicator lights when playing a Super Audio CD. STANDBY Indicator 32.
- This indicator lights when the DVD player turns off.

- 8 -

ΕN

#### ✓ Tour of the remote control

Buttons on remote control work in different ways for DVD, VCD, and CD : Refer to the following table for correct use.

	DVD	VCD	CD
POWER	<ul> <li>Press this to switch the power between on and standby.</li> </ul>	<ul> <li>Press this to switch the power between on and standby.</li> </ul>	<ul> <li>Press this to switch the power between on and standby.</li> </ul>
A-B REPEAT Button	Marks a segment to repeat     between A and B.	Marks a segment to repeat between A and B.	Marks a segment to repeat between A and B.
REPEAT Button	<ul> <li>Allows you to repeat play a Group (For DVD-Audio), Title, or Chapter.</li> </ul>	<ul> <li>Allows you to repeat play a Track or Disc.</li> </ul>	<ul> <li>Allows you to repeat play a Track or Disc.</li> </ul>
	<ul> <li>To set black level on/off.</li> <li>To activate the 3D sound (Virtual surround system).</li> </ul>	<ul> <li>To set black level on/off.</li> <li>To activate the 3D sound (Virtual surround system).</li> </ul>	<ul> <li>Allows you to program a specific order or random playback.</li> <li>To activate the 3D sound (virtual surround system).</li> </ul>
	• To magnify part of picture (x2/x4).	<ul> <li>To magnify part of picture (x2).</li> </ul>	_
	Accesses various camera angles     on a disc.		—
	<ul> <li>Accesses various subtitles on a disc.</li> </ul>		_
AUDIO Button	Accesses various audio functions     on a disc.	• To select STEREO, L-CH or R-CH.	To select STEREO, L-CH or R-CH.
	Displays the current disc mode.	Displays the current disc mode.	Displays the current disc mode.
SEARCH MODE Button	<ul> <li>To search chapter, title, or time.</li> <li>To rapidly return to a location of disc.</li> </ul>	<ul> <li>To search track or time.</li> <li>To rapidly return to a location of disc.</li> </ul>	<ul> <li>To search track or time.</li> <li>To rapidly return to a location of disc.</li> </ul>
OPEN/CLOSE Button	• To open or close the disc tray.	• To open or close the disc tray.	To open or close the disc tray.
NUMERIC Buttons	<ul> <li>To select chapter directly.</li> </ul>	To select track directly.	To select track directly.
CLEAR Button	Clear the markers.	Clear the markers.	<ul> <li>Clear the markers.</li> <li>Removes status No. in program input.</li> </ul>

⊲

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#### Tour of the remote control

	DVD	VCD	CD
MENU Button	Brings up the Menu on a disc.	_	
TOP MENU Button	Brings up the Top Menu on a disc.		—
ENTER, CURSOR Buttons	<ul> <li>Moves the cursor and determines its position.</li> </ul>	<ul> <li>Moves the cursor and determines its position.</li> </ul>	Moves the cursor and determines     its position.
RETURN Button	Returns to a previous menu.	Returns to a previous menu.	_
SETUP Button	Brings up the DVD player's Setup menu.	Brings up the DVD player's Setup menu.	Brings up the DVD player's Setup menu.
SKIP Buttons	<ul> <li>To skip Chapters</li> <li>To skip Tracks (For DVD-Audio).</li> </ul>	To skip Tracks.	• To skip Tracks.
SEARCH Buttons	<ul> <li>Allows you to search forward/backward through a disc (x2. x8. x50. x100).</li> </ul>	<ul> <li>Allows you to search forward/backward through a disc (x2. x8. x30).</li> </ul>	<ul> <li>Allows you to search forward/backward through a disc (x16).</li> </ul>
STOP Button	To stop playback.	To stop playback.	To stop playback.
PLAY Button	• Begin disc play.	• Begin disc play.	• Begin disc play.
PAUSE Button	<ul> <li>Pause disc play.</li> <li>Advances playback one frame at a time.</li> </ul>	<ul> <li>Pause disc play.</li> <li>Advances playback one frame at a time.</li> </ul>	• Pause disc play.

#### FUNCTIONAL OVERVIEW

K Display	>
Stays on when repeat title function is on.	Stays on when repeat chapter function is on. Stays on when repeat track function is on.
the repeat function is on. Stays on when the A-B repeat function is on. Stays on when the inserted disc is being played back.	B CD: Lights up when a CD is inserted into the tray. (The SUPER AUDIO CD Indicator also lights up when playing a Sup when the Lights up when a Lights up when a CD is inserted Indicator also lights up when playing a Super Audio CD.)
insert	ted disc comes pause. Displays how long a current title or track has been played back. When a chapter or track has switched, the number of a new title, chapter or track is displayed.
✓ Displays During Operation	➢ ✓ Loading the Batteries
Power on	1. Open the battery compartment cover.
No disc inserted	<ol> <li>Insert two "AA" (R6P) batteries, with each one oriented correctly.</li> </ol>
Tray closed       Loading the Disc	3. Close the cover.
Power off	<ul> <li>NOTES</li> <li>Do not mix alkaline and manganese batteries.</li> <li>Do not mix old and new batteries.</li> </ul>
✓ Using the remote control	Cautions On Batteries
Keep in mind the following when using the control: • Make sure that there is no obstacle betwee remote and the remote sensor on the unit • Use within the operating range and angle	<ul> <li>Replace the batteries with new ones approximately once a year, though this depends on the frequency with which the remote control unit is used.</li> </ul>
60°	<ul> <li>Do not short-circuit, disassemble, heat or dispose of batteries in flames.</li> <li>Remove the batteries when not planning to use the remote control unit for a long period of time.</li> <li>If the batteries should leak, carefully wipe off the fluid from the inside of the battery compartment, then insert new batteries.</li> </ul>

English

#### **Description - rear panel**



#### 1. DIGITAL OUT JACKS

Use either an optical or coaxial digital cable to connect to an AV amplifier with a built-in decoder (AV control center). 2. 2ch AUDIO OUT JACKS

Connect to the Audio input jacks of A/V-compatible TV or wide screen TV, Stereo system. (The sound of Super Audio CD discs is not output.)

#### 3. VIDEO OUT JACK

Use a video cable to connect one of the jack to Video input on your A/V-compatible TV or wide screen TV, Stereo system. 4. COMPONENT VIDEO OUT JACKS

Use these jacks if you have a TV with Component Video in jacks. These jacks provide C<sub>B</sub>/P<sub>B</sub>, C<sub>B</sub>/P<sub>B</sub> and Y video. Along with S-Video, Component Video provides the best picture quality.

### 5. S-VIDEO OUT JACK

Use the S-Video cable to connect this jack to the S-Video jack on your A/V-compatible TV or wide screen TV for a higher quality picture.

- 6. PROGRESSIVE switch
- 7. 5.1ch AUDIO OUT JACKS

Use the speaker cables to connect these jacks to the 5.1ch AUDIO IN jacks on your AV amplifier with 5.1-channel input terminals.

#### Selecting Progressive Scan (480p or Interlaced 480i) Playback

• If your TV is compatible with progressive scanning (480p), connect the TV to the Component Video Output jacks of the DVD player and set the Progressive switch on the back of the DVD player to "PROGRESSIVE". Next, set your TV to the progressive scan mode.

If your TV is not compatible with progressive scan, keep the Progressive switch to "INTERLACE".

• Use a commercially available adaptor if the video input jacks of your TVs or monitors are the BNC type.

#### What is Progressive Scanning?

• Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional (480i) television signals.

#### NOTE

• When the Progressive switch is set to "PROGRESSIVE", no video signal will be output from the VIDEO OUT or S-VIDEO OUT jack.

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The following show examples of connections commonly used to connect the DVD player either TV and other components.

If using this DVD player to playback a DVD in a 5.1 channel Dolby Digital surround or DTS surround format, the DVD player outputs a Dolby Digital or DTS data stream from its OPTICAL or COAXIAL DIGITAL AUDIO OUT jacks. 5.1 channel Dolby Digital Surround sound and DTS sound can also be output from the 5.1 CH OUTPUT jacks. By hooking the player up to a Dolby Digital or DTS decoder, you can enjoy a more convincing, realistic ambience with powerful and high-quality surround sound of a professional standard, which can be heard in movie theaters. Use an audio coaxial or optical digital cable (not included) for the audio connections. Use audio cables (commercially available ) for the 5.1 CH audio connection.

#### Notes

- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Instruction Manuals for your TV, stereo system and any other components to be connected to the DVD player.



- Method 2 DVD Player + Dolby Digital decoder or DTS decoder

#### NOTES

- If output Dolby Digital audio, connect to a Dolby Digital decoder, and set Dolby Digital to ON for audio output in the setup mode. (See page 26)
- If output DTS audio, connect to a DTS decoder, and set DTS to "DTS" for audio output in the setup mode. (See page 26)
- Unless connected to a Dolby Digital decoder or a DTS decoder, set Dolby Digital to "OFF", or DTS to "PCM" for audio output in the setup mode. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (See page 26)
- The audio source on a disc in a 5.1 channel Dolby Digital surround format cannot be recorded as digital sound by an MD or DAT deck.
- Set Dolby Digital "OFF" and set DTS to "PCM" for audio output in the setup mode for method 1 only. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (Refer to page 26 to set Dolby Digital "ON" and to set DTS to "DTS")
- · Super Audio CD sound is not output from the 2ch AUDIO OUT jacks.
- · Super Audio CD sound is not output as digital sound.

### Optical cable (not supplied)

- Optical cable (not supplied) may be damaged when bent at sharp angles. Ensure cables are coiled in loops with a diameter of 15 cm or more when storing them.
- Use a cable which is 3m or shorter.
- Insert cable plugs firmly into the connectors when making connections.
- If a plug has minor scratches or is dirty, clean it with a soft cloth before inserting it into a connector.

C

#### Connection to 5.1-channel Surround Sound system

Analog 5.1-channel audio signals can be output from the DVD player. The multichannel audio signals recorded in packed PCM can be played when an AV amplifier equipped with analog 5.1-channel audio inputs is connected.





- Method 1 DVD Player + TV with Video Input Jack
- Method 2 DVD Player + TV with S-Video Input Jack
- Method 3 DVD Player + TV with Component Video Jacks

#### NOTES

- If your TV is compatible with progressive scanning (480p), connect the TV to the Component Video Output jacks of the DVD player. Refer to page 12.
- Connect the DVD player directly to a TV. If the A/V cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- S-Video output connector

The video signals are divided into color (C) and brightness (Y) signals, achieving a clearer picture.

- If the TV is equipped with a S-Video input connector, we recommend connecting it to the this product's S-Video output connector using a commercially available S-Video connection cord.
- Super Audio CD sound is not output from the 2ch AUDIO OUT jacks.

#### HOW TO CONNECT TO A TV WITHOUT AUDIO/VIDEO INPUT JACKS

If your TV does not have RCA type audio and video input jacks it is still possible to connect this DVD player to your TV's 75-ohm coaxial antenna terminal using an optional Stereo Audio/Video RF Modulator, not included. Connect the audio and video outputs of the DVD player to the audio and video inputs on the RF Modulator, and then connect the coaxial output of the RF Modulator (usually marked "TO TV") to the 75 ohm coaxial antenna terminal on your TV. Follow the instruction supplied with the RF Modulator for more details.

If your TV's 75 ohm coaxial antenna terminal is already occupied by an antenna or cable box connection, remove that cable from your TV's antenna terminal and reconnect it to the coaxial antenna input terminal of the RF Modulator (usually marked "ANT IN"), then connect the RF modulator to your TV's antenna terminal as described above.

#### NOTE

• The picture quality from DVD discs will not be as good if the DVD player is connected to the TV's antenna terminal through an RF Modulator.





repeatedly to select the required speed: 1/16, 1/8, 1/2 of the normal playback. If you are using I ← on the front panel, press I► 1/2) and hold it for more than 1.5 sec (the longer you hold it, the faster

DVD-A

Only Movi Picture ing DVD-V

► 1/16) I► 1/8

VCD

VCD

► Buttor

- DVD-V The Zoom function allows you to enlarge the video image and to pan through the enlarged image. Press the **ZOOM** button during playback.
  - 2 Press the **ZOOM** button repeatedly to select the required zoom factor: x2, x4 or OFF.
    - Only x2 zoom is available on Video CDs.



3 Use the cursor buttons ( $\nabla / \triangle / \triangleright / \blacktriangleleft$ ) to move the zoomed picture across the screen.



4 To exit zoom mode, press the **ZOOM** button to OFF.

#### NOTES:

- · Zooming function does not work while disc menu is shown.
- x4 zoom is not available on some discs.

- For MP3 and WMA the speed is fixed at x8.
- 2 To return to normal playback, press the PLAY button.

Track SUPER AUDIO CD DVD-A CD VCD **WMA** MP3 There are three ways to begin playback on a DVD-Audio, Audio CD, Super Audio CD, Video CD, MP3 or WMA disc at a specific Track. By using the Numeric buttons (Except for DVD-Audio) Press the numeric buttons to enter the desired Track number. · Playback will start at the selected track. • For single digit tracks (1-9), press a single number (eg. track 3, press 3). NOTE: • To play track 26, press +10, 2, 6 on the numerical button. By using the SEARCH MODE button (DVD-Audio/Audio CD/Super Audio CD/Video CD) Press the **SEARCH MODE** button. TR The track search display appears. 2 Within 30 seconds, select a desired track number using the numeric buttons. For single digits press "0" first. playback will start. · Playback will start at the selected track. NOTE Playback must first be stopped (in resume mode) when selecting tracks from DVD-Audio discs. By using the SKIP buttons During playback, press the SKIP >>> button to move to the next track. Press it repeatedly to skip subsequent tracks. Press the SKIP I⊲ button to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks. • Track number will appear briefly on the DVD display panel. • If any SKIP button is pressed while the playback is paused, the playback will be paused again after skipping to the next track. NOTE: • The SKIP I I buttons are not available when playback is stopped. **Title / Chapter Search** DVD-V By using the SEARCH MODE buttons Press the SEARCH MODE button TT \_/ once for the Chapter search, twice for the Title search during playback. 2 Enter the desired chapter/title number with the numeric buttons. By using the SKIP buttons During playback, press the SKIP >> button to move to the next

chapter. Press it repeatedly to skip subsequent chapters. Press the SKIP I button to go back to the beginning of the current chapter. Press it repeatedly to go to the previous chapter.

#### Page Selection

#### DVD-A

Some DVD Audio discs that include still images are provided with a selection of images you can choose from.

1 Press the MODE button 3 times during playback.



2 Press the ENTER button.

- It is in the ready state for you to enter the page number. 3 Press the numeric buttons to select the image of your choice.
  - Press the MODE button twice when 5.1CH is selected as the audio channel in the audio setting of the setup menu.

Playing From a Desired Group

#### DVD-

- During playback or in stop mode, press the SEARCH MODE button twice.
- 2 Press the numeric buttons to select a group.



G 1/12

Playback of the Bonus Group



Some discs are recorded with Bonus Group that can be playbacked by entering a password. Refer to the disc jackets.

In stop mode, press the SEARCH MODE button to open the group search screen.

#### 2 Press the numeric buttons to

select a bonus group number. • The password popup window appears.



3 Press the numeric buttons to enter the 4-digit password.

· When the correct password is entered, playback starts from the top of the bonus group.

#### NOTES:

- In some cases the password window is displayed on the menu screen. Follow the instructions given on the screen.
- Once the password is entered, it can be playbacked repeatedly until the disc is removed from the disc tray.



- 2 Within 30 seconds, enter a desired disc time with the numeric buttons.
  - · Playback will start at the specified timé.
- 3 Press the **CLEAR** button to erase the incorrect input.



PLAYING A DISC		
Repeat	NOTES:	
The <b>REPEAT</b> button is available only during playback.	<ul> <li>The A-B repeat section can only be set within the currer title (for DVDs), or current track (for Audio CDs).</li> </ul>	
REPEAT TITLE / CHAPTER	<ul> <li>A-B Repeat is not available with some scenes in DVD.</li> <li>To cancel the A point which was set, press the CLEAR button.</li> </ul>	
DVD-V	<ul> <li>A-B Repeat playback does not function during title, chap- ter, track or all repeat playback.</li> </ul>	
To activate the repeat function, press the <b>REPEAT</b> button during playback.	✓ Program	
• The repeat mode changes as described below every time you press the button.		
(repeat off) (current chapter repeat) (current title repeat)	<ul> <li>You may determine the order in which tracks will play.</li> <li>In stop mode, press the MODE button.</li> <li>The PROGRAM screen will appear.</li> <li>Press the cursor buttons</li> <li>(▲ or ▼) to select a track, then</li> </ul>	
<ul> <li>NOTES:</li> <li>Repeat Title/Chapter is not available with some scenes.</li> <li>he REPEAT setting will be cleared when moving to other title or chapter.</li> </ul>	<ul> <li>press the ENTER button.</li> <li>Press the CLEAR button to erase the most recently entered program.</li> <li>Press the PLAY button to play</li> </ul>	
REPEAT TRACK	the programmed tracks.	
CD SUPER AUDIO CD VCD To activate the repeat function, press the <b>REPEAT</b> button during playback.	<ul> <li>NOTES:</li> <li>While the program is being played back, the STOP button works as follows.</li> <li>Press the STOP button once and then the PLAY button again, playback will restart from the point where the STOP button</li> </ul>	
<ul> <li>The repeat mode changes as described below every time you press the button.</li> <li>Image: OFF Image: Content of the second s</li></ul>	<ul> <li>was pressed. (Program continued)</li> <li>Press the STOP button twice and then the PLAY button again, playback will restart from the track in the usual way. (Program cleared)</li> </ul>	
(repeat off) (current track repeat) (entire disc repeat)	<ul> <li>Up to 99 programs can be entered.</li> <li>If you wish to repeat the current track in the program, press the REPEAT button repeatedly until TRACK appears during playback. If you wish to repeat the entire program press the REPEAT button repeatedly until ALL appears during</li> </ul>	
<ul> <li>The REPEAT setting will be cleared when moving to other track.</li> <li>Repeat playback does not function during A-B repeat playback.</li> <li>Repeat playback is not available when playing the Video CD with PBC function.</li> </ul>	<ul> <li>Playback.</li> <li>Refer to page 22 for program playback of MP3, WMA, and JPEG.</li> </ul>	
DVD-A MP3 JPEG WMA	DVD-A	
Image: Constraint of the second state of the second st	<ul> <li>In stop mode, press the MODE button twice.</li> <li>The group selection screen will appear.</li> </ul>	
A-B REPEAT	2 Press the cursor buttons (▲ or ▼) to select a group, then press the ENTER button	
DVD-A     DVD-V     CD     SUPER AUDIO CD     VCD       I Press the A-B REPEAT button at your chosen starting point.     I A- appears briefly on the TV screen.     I A- appears briefly on the TV screen.	<ul> <li>group, then press the ENTER button.</li> <li>The track selection screen will be displayed.</li> <li>It takes approximately five seconds until the track selection screen appears.</li> <li>Press the cursor buttons (▲ or V) to select a track, then press the ENTER button.</li> <li>Press the &lt; button to go back to the group selection screen from the track selection screen.</li> <li>Press the PLAY button to play the programmed tracks.</li> </ul>	
<ul> <li>Press the A-B REPEAT button again at your chosen end point.</li> <li>A-B appears briefly on the TV screen, and the repeat sequence begins.</li> </ul>	<ul> <li>NOTES:</li> <li>It may take time for all the respective track times to be displayed.</li> <li>The programmed content is retained until the power is turned off or the disc tray is opened.</li> <li>If eight or more tracks have been set in a program, the user can switch the right part of the screen with the SKIP button  ◄&lt; or ►► .</li> </ul>	
To exit the sequence, press the A-B REPEAT button.		

ΕN

English

#### PLAYING A DISC Playback of All Groups Information on MP3, JPEG and WMA discs DVD-A • A file with an extension of ".mp3 (MP3)" is called an "MP3 file". • A file with an extension of ".jpg (JPG)" or ".jpeg (JPEG)" is In stop mode, press the MODE called a "JPEG file". button. The DVD player can run an image file conforming to the ALL GROUP screen appears. Exif\* specification. This is a file format, Exchangeable Image File format established by Japanese Electronic Industry Development Association (JEIDA). A file with an extension of ".wma (WMA)" is called a Press the PLAY button to play. "WMA file". Files whose extension is other than ".mp3 (MP3)", ".jpg (JPG)", ".jpeg (JPEG)" and ".wma (WMA)" will not be list-Random Playback ed in the MP3, JPEG, or WMA menu. If the file is not recorded in MP3, JPEG or WMA format, noise SUPER AUDIO CD CD may be produced even if the file extension is either of ".mp3 (MP3)", ".jpg (JPG)", ".jpeg (JPEG)" and ".wma (WMA)". This shuffles the playing order of tracks instead of playback in the original sequence. In stop mode, press the MODE When a disc with MP3, JPEG or WMA files is inserted in the button twice. DVD player, the track menu will appear on the TV screen, • RANDOM screen appears. and number of tracks is displayed on the front panel. Place the disc in the tray with the label facing up. 2 Press the PLAY button to start random playback. For discs on which MP3, JPEG or WMA tracks are recorded: NOTES: If you wish to repeat the current track in the random selection, press the **REPEAT** button repeatedly until **C TRACK** appears An MP3, JPEG or WMA track menu screen appears. A symbol of "" is shown on the top of the group name. during playback. If you wish to repeat the entire random selec-A symbol of "" is shown on the top of MP3 files. tion press the REPEAT button repeatedly until G ALL A symbol of """ is shown on the top of JPEG files. A symbol of """ is shown on the top of WMA files. appears during playback. Refer to page 22 for random playback of MP3, WMA, and If the picture extends beyond the scope of screen, a down JPEG. arrow "▼" appears, indicating that the user can view anoth-DVD-A er part of the picture on the next page. If an up arrow "..." In stop mode, press the MODE button three times. appears, it indicates that the user can view another part on the previous page. The current page number and the The group selection screen will number of total pages are shown on the right of the down appear. arrow "▼". The system can recognize up to 255 groups (or folders) and up to 256 tracks. (This applies to the case where mixed MP3, JPEG and WMA files are recorded.) If no MP3, JPEG or WMA files are found in the group, the Press the cursor buttons (A) group is not displayed. or $\mathbf{\nabla}$ ) to select the desired The DVD player can reproduce data recorded as per ISO group to playback randomly, then press the ENTER button. 9660 Level 1, Level 2 or Joliet on the disc. · It can also run a disk on which data is recorded in a multi- RANDOM screen will appear. session For more details of recording systems, see the instruction manual for the CD-R / CD-RW drive or the writing software. B Press the PLAY button Applicable MP3 file Remarks Random playback will start. It is prohibited to record Sampling fre-44.1kHz MP3 sound on a digital quericy 48kHz device when connection is MP3 / JPEG / WMA Playback made digitally.

JPEG WMA MP3

This DVD player can reproduce images and sounds from data recorded in MP3, JPEG and WMA formats on CD-R and CD-RW discs.

The DVD player can also run JPEG files stored on Kodak

The user can enjoy picture images on the television set by reproducing picture CDs.

\* Picture CD is a service to convert a photograph taken by conventional film camera into digital data and write the data on a CD.

For details of Picture CD, contact a shop that deals with developing service of Kodak Inc.

Туре

Size of

image

Applicable JPEG file

MP3 files recorded at fixed

bit rate of 112 kbps or high-

A JPEG image that extends

displayed within the screen.

er are recommended.

beyond the screen is

reduced so that it will be

Remarks

MPEG1

Upper limit:

Lower limit: 32x32 dots

audio layer 3

6300x5100 dots

Applicable WMA file		Remarks	
Sampling fre- quency	44.1kHz 48kHz	<ul> <li>Those frequencies are applicable to WMA version 8 only, not to WMA version 9.</li> </ul>	
Bit rate	48–192kbps	<ul> <li>Ensure that the copyright function is set to off when preparing a WMA disc.</li> </ul>	
Туре	WMA version 8	<ul> <li>A prohibition "disable" symbol will appear if the user attempts to run a non-repro- ducible file such as copy- right-protected.</li> </ul>	

#### For discs of JPEG or Kodak picture CD:

- A JPEG or Kodak Picture CD menu appears.
- If all menu items cannot be displayed in the screen scope, a prompt symbol ">>I" appears at the right bottom of the screen, indicating that the user can view remaining items on the next page. If another prompt symbol "I it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the center bottom of the screen.
- If a prompt symbol ">>I" is shown at the right bottom, use the **SKIP I** button to view the next page. If another prompt symbol "I SKIP I d button to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.
- **1** For JPEG, press the **cursor buttons**  $(\blacktriangle/\nabla)$ , or for Kodak Picture CD, press the cursor buttons (</  $\blacktriangleright / \blacktriangle / \checkmark$ ), select a desired group or track to be played, then press the PLAY or ENTER button.
- If an MP3 or WMA file is selected, reproduction will start from the selected track and go to the next one in turn.
- If a JPEG or Kodak picture CD file is selected, an image will be reproduced from the selected track and go to the next one in turn.

A track is displayed for five seconds and then the next track is displayed.

Every press on the **cursor button** > will turn the image clockwise by 90 degrees when an image is displayed. A press on the **cursor button** < will turn the image counterclockwise by 90 degrees.

 If a group is selected, press the cursor button ▲/▼ to select a desired group, then press the ▶, PLAY or ENTER button to select a track. If you press the PLAY or ENTER button, reproduction of the picture will start.

- Notes on MP3, JPEG and WMA: Select "FIRST PLAY" and press the PLAY button, playback from the top of the disc in the order of tracks and groups.
- The ninth and deeper hierarchies cannot be played.
- The name of group and track can be displayed in up to 25 characters. Unrecognizable characters will be replaced with asterisks.
- Un-reproducible groups or tracks may be displayed depending on the recording conditions.
- If the TOP MENU button is pressed when a file list is displayed, "FIRST PLAY" will be highlighted.

#### 2 Press the STOP button, to stop playback.

#### Notes on Kodak picture CD:

· A press on the STOP button will highlight the previously displayed track on the menu screen. Press the STOP button again or press the TOP MENU button, and the menu screen displays Tracks 1 to 6, where Track 1 is highlighted.

#### Slide Show Mode

#### **JPEG**

You can switch to the slide show mode during playback. Press the MODE button during playback.

- The slide show mode screen will appear.
- The slide show mode cannot be switched when it is stopped, or from the file list screen or the Picture CD menu screen.

#### 2 Press the ENTER button.

- · The slide show mode will change.
- 1 The entire image appears in one time.
- 2 The image appears gradually and then disappears.

3 Press the **MODE** button to exit.



- again to exit.
- During program or random playback, each playback

status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button again to exit.

Track Selection MP3 JPEG WMA

- Press the SEARCH MODE button during playback.
  - The FILE LIST will appear.

#### 2 Select a desired track using the **cursor buttons** (▼/▲/►/◀).

- Press the button when you want to go to the next hierarchy.
- Press the button when you want to go back to the previous hierarchy.
- S Press the PLAY button to start playing NOTES:
- Press the SEARCH MODE button to exit.
- Some selections may require additional time to be recognized.
- During play, a desired track can be directly searched. Just type in the TRACK number with the **numeric buttons**. If the typed TRACK number is not available, the "disable"
- symbol appears and the direct search mode is cancelled.
- Playback cannot be started from a desired time count. Pressing the SKIP button ►►I or I<< will play the next or previous file
- The SEARCH button is not effective for Picture CD.

#### Random Playback

 Press the MODE button twice while playback is stopped.



Press the PLAY button to play the tracks in random order.

MP3

- · Random play starts.
- For a disc containing mixed MP3, JPEG and WMA files, random play of those files will be performed.

✓ Program



This feature allows you to program a MP3 disc to play in a desired sequence.

- Press the MODE button while playback is stopped.
  - The PROGRAM screen will appear.



- Press the ▲ or ▼ button to select a group, then press the ENTER button.
  - A track selection screen appears.
- IPress the ▲ or ▼ button to select a track, then press the ENTER, button to save it in a program.
  - Press the CLEAR button to erase the incorrect input.
  - The programmed track is displayed in the right-hand screen.
  - If the entire program cannot be displayed at once on the screen, "♥" appears to go to the next page.
  - Pressing the ◀ button will show a list of folders that belong to the one-level upper hierarchy than the currently selected folder.
- Press the PLAY button to start programmed playback.
  - Programmed play starts.
- NOTES:
  - Press the **CLEAR** button, and the last-programmed entry will be deleted.
  - Press the **RETURN** button, and the STOP screen will show up with the program contents in memory.
  - Press the **STOP** button, and then press the **PLAY** button. Playback will restart from the beginning of the track being played previously (Program cleared).
  - The program setting will be cancelled when the power is turned off or the disc tray is opened.
  - Up to 99 tracks can be set in a program.
  - If a disc in inserted that contains mixed MP3, JPEG and WMA files, program setting allows 99 tracks for combination of MP3, JPEG and WMA files.
  - If eight or more tracks have been set in a program, the user can switch the right part of the screen with the SKIP button I◄◀ or ►►I.

 $<\,$  Audio Language or Sound Mode  $\,$ 

#### DVD-V

The DVD player allows you to select a language during DVD disc (if multi language available) playback.

Press the AUDIO button during playback.
Press the AUDIO button repeatedly to select your



#### NOTES:

- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Pressing the **AUDIO** button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).
- The sound mode cannot be changed during playback of a Super Audio CD. (It may be possible to switch the sound mode when playing back discs including a CD area.)

#### Press the AUDIO button during playback.

Press the AUDIO button repeatedly to select your desired sound.

NOTE:

 "2. PPCM 2.0ch 96k/2" can be displayed even if there is no second sound. (The sound number during playback remains as 1.)



Stereo Sound Mode

 CD
 VCD

Press the AUDIO button repeatedly during playback to select between STEREO, L-CH or R-CH. STEREO - both right and left channels are active (stereo)

L-CH - only left channel is active

R-CH - only right channel is active



#### NOTES:

- If the Virtual Surround setting is ON, the sound mode will be fixed to STEREO, and can not be changed.
- Stereo sound mode will not be changed when playing DTS CD.



The DVD player allows you to select

a language for subtitle during DVD disc (if available) playback.

- Press the **SUBTITLE** button during playback.
- 2 Press the **SUBTITLE** button repeatedly to select your desired subtitle language.
  - The selected language will be displayed on the display bar at the top of the screen.
- **3** To turn off subtitles, press the **SUBTITLE** button repeatedly until OFF appears.



#### NOTES:

- Some discs allow audio language setting/subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
- If the desired language is not shown after pressing the SUBTITLE button several times, the disc does not have subtitles in that language.
- If you choose a Language that has a 3-letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 28.)

#### Camera Angle

#### DVD-V

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the  $(\int_{-\infty}^{\infty} d)$  mark appears on the screen.

- **1** Press the **ANGLE** button during playback.
  - The selected angle will be displayed on the display bar at the top of the screen.
- Press the ANGLE button repeatedly to select your desired angle.



Changing the On-Screen Display

### DVD-V

You can check information about the current disc by pressing the **DISPLAY** button on the remote control.

- Press the DISPLAY button during playback to show current Chapter.
  - The elapsed and remaining playing time of the current chapter will be displayed.
- Press the DISPLAY button again to show current Title.
  - The elapsed and remaining playing time of the current title will be displayed.
- Press the DISPLAY button the third time.
  - The BIT RATE and the current repeat setting will be displayed.



СT

- If you are playing a dual layered disc, the layer number will also be displayed (L0: Layer 0 is playing. L1: Layer 1 is playing).
- Press the DISPLAY button the fourth time to remove the display.

CD	SUPER AUDIO CD	VCD
	10210 02	

- Press the DISPLAY button during playback, the current Track will be displayed on the TV screen.
  - The elapsed and remaining playing time of the current track will be displayed.
- 2 Press the **DISPLAY** button again to show the Total Tracks.
  - The elapsed and remaining playing time of the disc will be displayed.
- Press the **DISPLAY** button for the third time to remove the display.

- 23 -

ΕN



5 Press the SEARCH MODE or RETURN button to

exit.

#### **DVD SETUP**

In Setup menu, QUICK mode and CUSTOM mode are availale. QUICK mode consists of the setting menus often needed, and you can make all settings required in CUSTOM mode. You can make the settings of the items with QUICK mark in QUICK mode.

#### Language Setting

Language options are not available with some discs.

- 1 Press the **SETUP** button in STOP mode.
- 2 Press the ► button to select CUSTOM, then press the ENTER button.
- · CUSTOM mode will appear. 3 Press the ◀ or ► button to se-
- lect LANGUAGE, then the EN-TER button to confirm.



- 4 Press the  $\blacktriangle$  or  $\checkmark$  button to select the below items, then press the ENTER button.
- AUDIO (Default : ENGLISH)
  - Sets the audio language.



SUBTITLE (Default : ENGLISH) • Sets the subtitle language.

**DISC MENU (Default : ENGLISH)** 

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- Screen display.
- **5** Press the  $\blacktriangle$  or  $\checkmark$  button to select a setting, then press the ENTER button.
  - If OTHER is selected in the AUDIO, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to the language code list on page 28).
  - Only the languages supported by the disc can be selected.

#### 6 Press the SETUP button to exit.

#### NOTE:

Language Setting for Dialog and Subtitle is not available with some discs. Then use the AUDIO and SUBTITLE buttons.

Details are on pages 22 and 23.

#### **Display Setting**

You can change certain aspects of the DVD display screens, on-screen messages and the display panel on the front of the DVD player.

- Press the SETUP button in STOP mode.
- 2 Press the ► button to select CUSTOM, then press the ENTER button.
- · CUSTOM mode will appear. 3 Press the ◀ or ► button to select DISPLAY, then the ENTER button to confirm.

DISPLAY	08
TV ASPECT PANEL DISPLAY ANGLE ICON AUTO POWER OFF	16:9 WIDE BRIGHT ON ON

DISPLAY TV ASPECT

4:3 LETTER BOX 4:3 PAN & SCAN

4 Press the ▲ or ▼ button to select the below items, then press the ENTER button.

#### TV ASPECT (Default : 16:9 WIDE) QUICK

- Press the ▲ or ▼ button for an item selection, then press the EN-TER button.
- · Select 4:3 LETTER BOX for a black bars appears on top and bottom of the screen.
- Select 4:3 PAN & SCAN for a full height picture with both sides trimmed.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD plaver.

#### PANEL DISPLAY (Default : BRIGHT)

- Press the ▲ or ▼ button for an item select BRIGHT, DIMMER and AUTO, then press the ENTER button.
- · This adjusts the brightness of the display panel with the factory default BRIGHT.
- · When AUTO is selected, the display dims only during playback.

#### ANGLE ICON (Default : ON)

• Press the ENTER button repeatedly to turn Angle mark ON or OFF.



- AUTO POWER OFF (Default : ON)
  - · Press the ENTER button repeatedly to turn Auto Power ON or OFF
  - · It will turn the DVD player to off automatically after 35 minutes of no use.

5 Press the SETUP button to exit.

#### NOTE:

Be sure to press the SETUP button, or the setting will not work.



#### **DVD SETUP**

#### **Audio Setting**

Choose the appropriate Audio settings for your equipment as it only affect during the playback of DVD discs of the DVD player.

- Press the SETUP button in STOP mode.
- 2 Press the ► button to select CUSTOM, then press the ENTER button. • CUSTOM mode will appear.
- 3 Press the ◀ or ► button to select AUDIO, then the ENTER button to confirm.



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OFF

Press the ▲ or ▼ button to select the below items, then press the ENTER button.

#### DRC (Dynamic Range Control) (Default : OFF)

· To compress the range of sound volume.

#### DOLBY DIGITAL (Default : ON) QUICK

- Set to ON when the player is connected to Dolby Digital Decoder. ON : Output by Dolby Digital
- OFF: Convert the Dolby Digital to PCM

#### DTS (Default : PCM)

DTS: Output by DTS sound Set to DTS when the unit is connected to DTS Decoder. PCM: Convert the Dolby Digital to PCM

#### DOWN SAMPLING (Default : ON)

· Set to ON when outputting in 48kHz



08



When playing disc with copright Protection Even If you select OFF, copyright protection will be acti-

## vated and sound will be down sampled at 48kHz. ANALOG (Default : 2.0 CH)

#### 2.0 CH : Output 2ch sound

5.1 CH : Output Multi channel sound



#### SACD (Default : MULTI-CH)

2 CH : Playback a 2ch area. MULTI-CH : Playback a multi-ch area.

- CD AREA : Playback a CD area.
- When choosing MULTI-CH, choose 5.1CH as well as the audio channel in the audio setting of the setup menu.



#### 5 Press the SETUP button to exit.

#### **Speaker Setting** $\bowtie$

When 5.1CH is selected for analog out, some speaker settings will be required.

- Press the ▲ or ▼ button to select 5.1CH, then press the ENTER button.
- Press the ▲ or ▼ button to select the below items, then press the ENTER button.



#### SPEAKER SIZE

 Press the ▲ or ▼ button to select the speaker to set.

				8
000	AUDIO SPEAKI FRONT	(L/R) R	LARGE	
	SUB W SURRO	OOFER JUND (L/R)	ON LARGE	

• Press Enter until the desired speaker size appears.

## FRONT(L/R), CENTER, SURROUND(L/R) (Default: LARGE)

- LARGE: Select this when the connected speaker is capable of playing back sounds of 100Hz or less.
- SMALL: Select this when the connected speaker is not capable of playing back sounds of 100Hz or less. Select this when it is not connected. (It cannot be OFE
  - set OFF on the FRONT speaker.)

SUB WOOFER (Default: ON) ON: Select this when SUB WOOFER is connected. OFF: Select this when it is not connected.

#### NOTES:

- "OFF" is not available for SUB WOOFER when
- "SMALL" is selected for FRONT(L/R). "SMALL" is not available for FRONT(L/R) when "OFF" is selected for SUB WOOFER.
- . When in playback of DVD audio, the sound may not come out as set due to restrictions in the disc or the player.
- During DVD-Audio playback, the Low Pass Filter (which filters out the sound with the sound wave frequency over 100Hz) of the SUB WOOFER will be turned off with the following speaker setting. Otherwise, the Low Pass Filter will be turned on.

FRONT(L/R): LARGE CENTER: LARGE SUB WOOFER: ON SURROUND(L/R): LARGE

#### **DELAY TIME**

To enjoy 5.1-channel surround sound, the distance between the listening position and all speakers (excluding the Sub woofers) should ideally be set at a uniform distance on a circle. If the speakers cannot be set at this manner, the ideal listening position can be virtually created with the delay time setting.

Use the  $\blacktriangle$  or  $\blacktriangledown$  button to select the setting item, then press the ENTER button.

 Press the ▲ or ▼ button to select the speaker to set, then press the ENTER button.



**DISTANCE (Default : FEET)** METERS(when the ENTER button is pressed): The unit of distance is set to meters ("m"). FEET(when the ENTER button is pressed): The unit of distance is set to feet ("ft").

#### FRONT(L/R), CENTER, SUR-ROUND(L/R) (Default : 10ft) FRONT(L/R):

The distance can be set within the range of 0 to 60 feet. CENTER, SURROUND: These are depends on the setting value of FRONT(L/R).





#### NOTES:

- It is not possible to adjust this item if CENTER and SURROUND have been set to OFF in the SPEAKER SIZE setting.
- When DEFĂULT is selected and the **ENTER** button is pressed, all the items are restored to their factory default settings.

#### BALANCE

When the channel level differs from each speaker, the adjustment can be made in the unit of dB (-12dB to 0dB). **TEST:** 

• Press the ▲ or ▼ button to select TEST, then press the ENTER button. The test tone will output from

button. The test tone will output from each speaker in turn.

## CHANNEL LEVEL:

• Press the ▲ or ▼ button to select the speaker to set, then press the ENTER button.

		٢	æ
<i>©</i>	AUDIO TEST		
్లం	FRONT (L) CENTER FRONT (R)	0dB 0dB -1dB	
	SURROUND (R) SURROUND (L)	-2dB -5dB	

0

• Press the ▲ or ▼ button to select the desired level for each speaker, then press the ENTER button.

#### NOTES:

- While the test tone is being output, the channel balance adjustment cannot be made.
- When TEST is selected, no test tone will be output from SUBWOOFER.
- It is not possible to adjust this item for the speaker that has been set to OFF in Speaker Size setting.
- **3** Press the **SETUP** button to exit.

#### Parental Control

Ratings Control limits playback of discs with unsuitable audience ratings. A four digit code established by the user will unlock the parental lock.

This feature allows you to prevent discs with objectionable scenes from being played by your children.



Rating Level allows you to set the rating level of your DVD discs. Playback will stop if the disc's ratings exceed the level you set.

- 1 Press the SETUP button in STOP mode.
- Press the ► button to select CUSTOM, then press the ENTER button.
- B Press the ◀ or ► button to select PARENTAL, then press the ENTER button.
- Enter your four-digit password then press the ENTER button.
- IPress the ▲ or ▼ button to select PARENTAL LEVEL, then press the ENTER button.



PARENTAL LEV ALL 3 7[NC-17] 3(D)  $\bigcirc$ 

 $\bigcirc$ 

G Press the ▲ or ▼ button to select the desired level, then press the ENTER button.

#### 7 Press the SETUP button to exit. NOTES:

- When doing this for the first time, enter any 4 digits. (except for 4737) That number will be used as the password from the sec-
- ond time onward.
  To change the password, press the ▲ or ▼ button to select CHANGE at step 5, then press the ENTER button. Enter the four-digit password, then press the ENTER button.
- With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.
- The parental lock level is equivalent to the following USA movie ratings.

ĹĿĔ	IVEL	7:	NC	-17
LE	EVEL	6:	R	
LE	EVEL	4:	PG	13
ĒĒ	EVEL	3:	ΡĞ	
	EVEL			
			<u> </u>	

The parental lock levels for "CANADA" are included for future use. Check the appropriate parental lock level when you buy a DVD video disc equipped with the parental lock feature in the future.

#### IF YOU FORGET THE PASSWORD

- Press **4**, **7**, **3**, **7** at step 4.
- Password will be cleared and rating level will be set to ALL.
   Repeat steps 5-7 to re-establish the parental lock.
  - CONTROL LEVELS
- ALL
  - Parental lock is cancelled.
  - DVD software of any grade (adult/general/children) can be played back.
- Levels 7 to 2
  - Only DVD software intended for general use and children can be played back.
- Level 1
- Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

#### **DVD SETUP**

Language	<u>Code</u>	Language	<u>Code</u>	Language	<u>Code</u>	Language	<u>Code</u>
А-В		Frisian	5271	Malay	5965	Somali	6561
Abkhazian	4748	Galician	5358	Malayalam	5958	Spanish [SPA]	5165
Afar	4747	Georgian	5747	Maltese	5966	Sundanese	6567
Afrikaans	4752	German [GER]	5051	Maori	5955	Swahili	6569
Albanian	6563	Greek [GRE]	5158	Marathi	5964	Swedish [SWE]	6568
Amharic	4759	Greenlandic	5758	Moldavian	5961	T	
Arabic	4764	Guarani	5360	Mongolian	5960	Tagalog	6658
Armenian	5471	Gujarati	5367	Nauru	6047	Tajik	6653
Assamese	4765	Hausa	5447	Nepali	6051	Tamil	6647
Aymara	4771	Hebrew	5569	Norwegian [NOR]	6061	Tatar	6666
Azerbaijani	4772	Hindi	5455	O-R		Telugu	6651
Bashkir	4847	Hungarian [HUN]	5467	Occitan	6149	Thai	6654
Basque	5167	I-K		Oriya	6164	Tibetan	4861
Bengali;Bangla	4860	Icelandic [ICE]	5565	Oromo(Afan)	6159	Tigrinya	6655
Bhutani	5072	Indonesian	5560	Panjabi	6247	Tonga	6661
Bihari	4854	Interlingua	5547	Pashto;Pushto	6265	Tsonga	6665
Bislama	4855	Interlingue	5551	Persian	5247	Turkish [TUR]	6664
Breton	4864	Inupiak	5557	Polish	6258	Turkmen	6657
Bulgarian	4853	Irish [IRI]	5347	Portuguese [POR]	6266	Twi	6669
Burmese	5971	Italian [ITA]	5566	Quechua	6367	U-Z	
Byelorussian	4851	Japanese [JPN]	5647	Rhaeto-Romance	6459	Ukrainian	6757
C-E		Javanese	5669	Romanian [RUM]	6461	Urdu	6764
Cambodian	5759	Kannada	5760	Russian [RUS]	6467	Uzbek	6772
Catalan	4947	Kashmiri	5765	S		Vietnamese	6855
Chinese [CHI]	7254	Kazakh	5757	Samoan	6559	Volapuk	6861
Corsican	4961	Kinyarwanda	6469	Sangho	6553	Welsh	4971
Croatian	5464	Kirghiz	5771	Sanskrit	6547	Wolof	6961
Czech	4965	Kirundi	6460	Scots Gaelic	5350	Xhosa	7054
Danish [DAN]	5047	Korean [KOR]	5761	Serbian	6564	Yiddish	5655
Dutch [DUT]	6058	Kurdish	5767	Serbo-Croatian	6554	Yoruba	7161
English [ENG]	5160	L-N		Sesotho	6566	Zulu	7267
Esperanto	5161	Laothian	5861	Setswana	6660		
Estonian	5166	Latin	5847	Shona	6560		
F-H		Latvian;Lettish	5868	Sindhi	6550		
Faroese	5261	Lingala	5860	Singhalese	6555		
Fiji	5256	Lithuanian	5866	Siswat	6565		
Finnish [FIN]	5255	Macedonian	5957	Slovak	6557		
French [FRE]	5264	Malagasy	5953	Slovenian	6558		
If you choose a Langua	ne that has	a 3-letter language code	the code	will be displayed every tim	ne vou char	nge the Audio or Subtitle	language

If you choose a Language that has a 3-letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on pages 22 and 23. If you choose any other languages, '---' will be displayed instead. (3-letter language code is written in bracket.)

#### MAINTENANCE

#### **Cleaning the Cabinet**

• Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

#### **Cleaning Discs**

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, adrasive cleaning agents or antistatic spray intended for analogue records.

#### Cleaning the disc lens

 If the player still does not perform properly when it is operated while referring to the relevant sections and to "TROU-BLESHOOTING GUIDE" in this Operating Instruction, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

#### **Disc Handling**

- Use discs which have the following logos on them.
- (Optical audio digital discs.)
- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- · Always store the disc in its protective case when it is not used.
- Note that discs with special shapes (heart-shaped discs, octagonal discs, etc.) cannot be played on the this product. Do not attempt to play such discs, as they may damage the player.





#### Make your contribution to the environment!!!

• Used up batteries do not belong in the dust bin.

• You can dispose of them at a collection point for used up batteries or special waste. Contact your council for details.

If the DVD player does not perform properly when operated as instructed in this Operating Instruction, check the player, consulting the following checklist.

Problem	Solution
No power	-Check if the AC power cord is properly connected.
	-Unplug the outlet once, and wait for 5-10seconds and then plug it in
	again
No sound or picture	-Check if the TV is switched on.
	-Check the video connection
	-Check the VIDEO/AUDIO cable connections to the TV
	(See Connecting to a TV)
	-The sound of a Super Audio CD is not output from the 2ch AUDIO
	OUT jacks. Connect an audio cable to the 5.1ch AUDIO OUT jacks
	(FRONT L, R).
	<ul> <li>Check if the progressive switch is set correctly according to your TV</li> </ul>
	If your TV is not compatible with progressive scan, keep the
	Progressive switch to "INTERLACE."
Distorted picture	-Sometimes a small amount of picture distortion may appear.
	This is not a malfunction.
	-Connect the player directly to the TV.
Completely distorted picture or	-Connect DVD player directly to the TV.
black/white picture with DVD	-Make sure the disc is compatible with the DVD player.
No sound or distorted sound	-Adjust the volume.
No sound of distorted sound	
No oudio at divital output	-Check that the speakers are connected correctly.
No audio at digital output	-Check the digital connections.
	-Check if the audio format of the selected audio language matches
Distance for an end of the	your receiver capabilities.
Picture freezes momentarily	-Check the disc for fingerprints/scratches and
during playback	clean with a soft cloth wiping from center to edge.
	-Clean the disc
Disc can't be played	-Clean the disc
	-Ensure the disc label is facing up.
	-Check if the disc is defective by trying another disc.
	-Cancel the parental lock or change the control level.
	<ul> <li>Insert a correct disc that plays on this player.</li> </ul>
No return to start-up screen when	-Reset the player by switching the player off, then on again.
disc is removed	
The player does not respond to	-Aim the remote control directly at the sensor on the front of the player
the remote control	<ul> <li>Reduce the distance to the player.</li> </ul>
	<ul> <li>Replace the batteries in the remote control.</li> </ul>
	-Re-insert the batteries with their polarities (+/- signs) as indicated.
Buttons do not work or player stops	–To completely reset the player, unplug the AC
responding	cord from the AC outlet for 5-10 seconds.
Player does not respond to some	<ul> <li>Operations may not be permitted by the disc.</li> </ul>
operating commands during playback	Refer to the instructions of the disc.
DVD player cannot read	-Use a commonly available cleaning CD/DVD to
CDs/DVDs	clean the lens before sending the DVD player for repair.
Angle does not switch	–The angle cannot be switched for DVDs which do not contain
	multiple angles. In some cases multiple angles are only recorded
	for specific scenes.
Playback does not start when the title is selected	-Check the "PARENTAL" setting.
The password for rating level has been forgotten	-Enter the default password "4737", then your forgotten password
	will be cleared
No sound of Super Audio CD is output	-Check if an audio cable is connected to the 5.1ch AUDIO OUT
· · ·····	jacks (FRONT L,R).

#### NOTES:

Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operating Instruction for details on correct operations.

• Playback from a desired track and random playback are not available during program playback.

#### **SPECIFICATIONS**

#### SIGNAL SYSTEM

NTSC color

#### APPLICABLE DISCS

- DVD-Audio/DVD-Video Discs

   layer 12cm single-sided discs, 2-layer 12cm single-sided discs, 2-layer 12cm double-sided discs (1 layer per side)
   layer 8cm single-sided discs, 2-layer 8cm single-sided discs, 2-layer 8cm double-sided discs (1 layer per side)
- (2) Super Audio CD
- (3) DVD-R/DVD-RW
- (4) Compact discs (Audio CD, Video CD) 12cm discs, 8cm discs
- (5) CD-R/CD-RW

#### S-VIDEO OUTPUT

Y output level: 1Vp-p (75Ω/ohms) C output level: 0.286Vp-p Output connectors: S connectors, 1 set

#### VIDEO OUTPUT

Output level: 1Vp-p (75Ω/ohms) Output connector: Pin jacks, 1 set

#### COMPONENT OUTPUT

Y output level: 1Vp-p (75Ω/ohms) CB/PB output level: 0.7Vp-p (75Ω/ohms) CR/PR output level: 0.7Vp-p (75Ω/ohms) Output connector: Pin jacks, 1 set

#### AUDIO OUTPUT

Output level: 2Vrms 2 channel (L, R) output connector: Pin jack, 1 set Multi channel (FL, FR, C, SW, SL, SR) output connector: Pinjack, 1 set

#### AUDIO OUTPUT PROPERTIES

(1)	Frequency response	
	1 DVDs (linear PCM)	: 4Hz to 22kHz (48 kHz sampling)
		: 4Hz to 44kHz (96 kHz sampling)
		: 4Hz to 88kHz (192 kHz sampling)
	2 CDs	: 4Hz to 20kHz
	3 Super Audio CD	: 4Hz to 100kHz
(2)	S/N ratio	: 115dB
(3)	Total harmonic distortion	: 1kHz CD: 0.003%
(4)	Dynamic range	: DVD: 100dB
		CD: 98dB

#### DIGITAL AUDIO OUTPUT

Optical digital output: Optical connector, 1 set Coaxial digital output: Pin jack, 1 set

#### POWER SUPPLY

AC 120V, 60Hz

#### POWER CONSUMPTION

16W (Standby: 0.4W)

#### MAXIMUM EXTERNAL DIMENSIONS

440 (width) x 75 (height) x 211 (depth) mm (17-5/16" x 2-61/64" x 8-5/16") (including protruding parts)

#### MASS

### 2.2Kg (4.9lbs)

#### REMOTE CONTROL UNIT

RC6400DV Infrared pulse type Supply: DC 3V, 2 R6P/AA batteries



### www.marantz.com

You can find your nearest authorized distributor or dealer on our website.

JAPAN	Marantz Japan, Inc.	35-1 Sagami Ohno 7-Chome, Sagamihara-shi, kanagawa 228-8505, Japan
U.S.A	Marantz America, Inc.	1100 Maplewood Drive, Itasca, IL 60143, U.S.A.
EUROPE	Marantz Europe B.V.	P.O. Box 8744, 5605 LS Eindhoven, The Netherlands





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