marantz®

Model DV6500 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.



CAUTION:

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE

COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE.





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.



TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO

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:

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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:

- 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.

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.

CAUTION:

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.

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

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

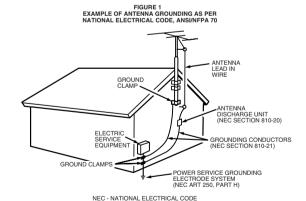
This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- Read Instructions All the safety and operating instructions should be read before the product is operated.
- 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.
- 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 manufacturer as they may cause hazards.
- 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.
- 8. Accessories Do not place this product on an unstable cart, stand, tripod, 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 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 asa bookcase or rack unless proper ventilation is provided or themanufacturer's instructions have been adhered to.
- 11. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12. Grounding or Polarization This 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.

AC 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.
- 14. Protective Attachment Plug The product is equipped with an attachment plug 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.
- 15. Outdoor Antenna Grounding If an outside antenna or cable system is connected 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. Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

- 17. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 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.
- 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 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 refer servicing to qualified service personnel under the following conditions:
- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or damaged in any way, and
- f. When the product exhibits a distinct change in performance this indicates 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.
- 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 ceiling only as recommended by the manufacturer.
- Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



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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INTRODUCTION

A NOTE ABOUT RECYCLING:

This product's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations.

Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulations concerning chemical wastes.

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 authorised by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

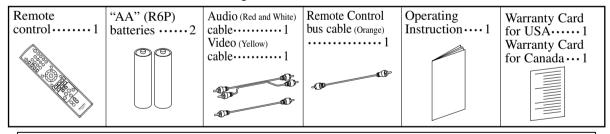
Apparatus Claims of U. S. Patent Nos, 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.

Notice for the progressive scan outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 525 progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 525p (480p) DVD player, please contact our customer service center.

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.

DVD-RW: Description refers to playback of the VR mode (Video Recording format).

Plavable Discs

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

| Usable discs | Mark (logo) | Recorded signals | Disc Size |
|--------------------------------|--|--------------------------------------|-------------------|
| DVD-Audio | DVD AUDIO | | 12 cm |
| (NOTE 1) | VIDEO VIDEO | Digital video | |
| DVD-R DVD-RW (NOTE 2, 3) | DYD DYD | (MPEG2) | 8 cm |
| CD CD-R | COMPACT COMPACT DIGITAL AUDIO | Digital audio MP3 WMA (NOTE 5) | 12 cm |
| CD-RW (NOTE 4) | DIGITAL AUDIO RECORDADO RECORDAD RECORDA | Digital picture (JPEG) | 8 cm |
| Super Audio CD | SUPER AUDIO CD | Digital audio | 12 cm |
| Video | COMPACT O | Sound and | 12 cm |
| CD | DIGITAL VIDEO VIDEO CD | Pictures | 8 cm (Singles) |
| Picture CD | Kodak Picture CD COMPATIBLE | JPEG | 12 cm |

NOTE 1: Some DVD-Video discs do not operate as described in this manual due to the intentions of the discs' producers.

NOTE 2: This unit can play DVD-RW discs recorded in DVD video format or DVD video recording format.

* The disc may not be played back due to recording quality

*The disc may not be played back due to recording quality or properties of the disc, dirt on the disc or the pickup lens, or condensation on the pickup lens.

NOTE 3: Discs that have not be finalized cannot be played.

Depending on the disc's recording status, the disc may not be accepted or may not be played normally (the picture or sound may be not be smooth, etc.).

NOTE 4: Some of CD-R/CD-RW discs may be incompartible

NOTE 4: Some of CD-R/CD-RW discs may be incompartible because of "scratch and stain of disc", "Recording condition", and "Characteristic of Recorder".

NOTE 5:



Windows Media and the Windows logo are 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 format can only be played back on DVD players with the same region code.
- This label indicates playback compatibility with DVD-RW discs recorded in VR mode (Video Recording Format).
- On the following discs, only the sound can be heard (picture cannot be viewed).
 CDV
- CD-G
 NEVER play back the following discs. Otherwise, malfunction may result!
 DVD-RAM
 CD-I

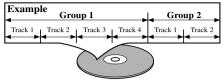
Photo CD DVD with region codes other than 1 or ALL DVD-ROM for personal computers CD-ROM for personal computers

• Any other discs without compatibility indications.

Disc Types

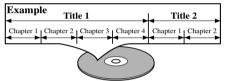
[DVD-Audio]

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."



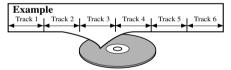
[DVD-Video]

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, Video CD or Super Audio 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.

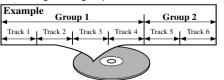
What is PBC? "PBC" stands for the Playback Control. You can play interactive software using menu screens. Refer to instructions in the Video CD.

NOTE:

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

[MP3, JPEG, WMA]

Data on an MP3, JPEG or WMA are divided into sections called "groups" and then into subsections called "tracks" each of which is given a group 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 (525i) television signals.

Dolby Digital Sound

By hooking this player up to a Multi - Channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital 5.1 channel surround sound as heard in the movie theaters.

DTS (Digital Theater System)

When this player is connected to the DTS decoder, you can enjoy 5.1 channel surround system which reproduces the original sound as truthfully as possible. 5.1 channel surround system is developed by the Digital Theater System, Inc.

Still/fast/slow/step playback

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

Still Mode

The resolution of pictures while in the still (pause) mode is adjusted.

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

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

The power turns off automatically if there is no activity at the player or the remote control for more than 35 minutes. (Refer to page 26.)

Subtitles in a desired language

You can select a desired language for displaying subtitle 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, Video CD, Super Audio CD, Audio CD, MP3, JPEG or WMA.

• Playing 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.

Search for the time designated by user is possible.

Repeat

Track:

All:

Time search:

Chapter: Repeated playback of the chapter of

the disc being played is possible.
Repeated playback of the title of the

Title: Repeated playback of the title of disc being played is possible.

Repeated playback of the track of the disc being played is possible.

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

You can resume playback from the point at which the play has been stopped even if the power is turned 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.

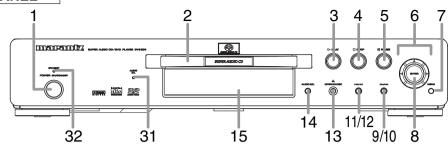
Reproducing WMA data

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

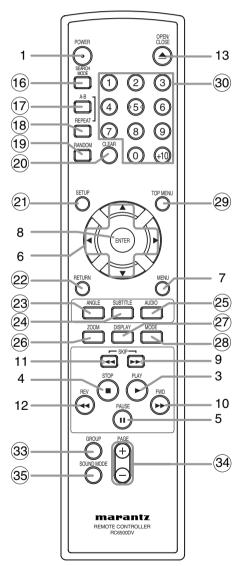
"Kodak Picture CD COMPATIBLE" is trademark of Eastman Kodak Company.

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

FRONT PANEL



REMOTE CONTROL



NOTE:

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

- 1. POWER (POWER ON/STANDBY) Button [page 16]
- 2. Disc loading tray
- 3. PLAY Button [page 16]
- 4. STOP Button [page 16]
- 5. PAUSE Button [page 16]
- Cursor Buttons [page 16]
 Use when making settings while watching the display on a TV screen.
- 7. MENU Button [page 16]
- 8. ENTER Button [page 16]
- ▶►I(SKIP) Button [page 18]
 Plays back from the beginning of the next chapter or track. Hold down to fast forward playback.
- 10. **►►** (FWD) Button [page 17]
- 11. I◄◄(SKIP) Button [page 18]

Plays back from the beginning of the current chapter or track. Hold down to fast reverse playback.

- 12. **◄◄**(REV) Button [page 17]
- 13. OPEN/CLOSE Button [page 16]
- 14. AUDIO EX. Button [page 25]
- 15. Panel Display, Remote Sensor Window
- 16. SEARCH MODE Button [page 18]
- 17. A-B REPEAT Button [page 19]
- 18. REPEAT Button [page 18]
- 19. RANDOM Button [page 20, 22]
- 20. CLEAR Button [page 18]
- 21. SETUP Button [page 26]
- 22. RETURN Button [page 16]
- 23. ANGLE Button [page 24]

Press to change the camera angle to see the sequence being played back from a different angle.

24. SUBTITLE Button [page 23]

Press to select a desired subtitle language.

25. AUDIO Button [page 23]

Press to select a desired audio language or sound mode.

- 26. ZOOM Button [page 17]
- 27. DISPLAY Button [page 22]
- 28. MODE Button [page 19]
- 29. TOP MENU Button [page 16]
- 30. Numeric Buttons [page 18]
- 31. AUDIO EX. Indicator

This indicator lights when the AUDIO-EX mode is activated.

32. STANDBY Indicator

This indicator lights when the DVD player turns off.

- 33. GROUP Button [page 18]
- 34. PAGE Buttons [page 18]
- 35. SOUND MODE Button [page 23]

Tour of the remote control

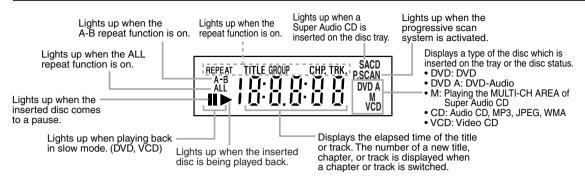
Buttons on remote control work in different ways for DVD, Video CD, CD, Super Audio CD, MP3, JPEG and WMA. Refer to the following table for correct use.

| | DVD | VCD | CD / Super Audio CD / MP3 / JPEG / WMA | |
|---|---|---|--|--|
| POWER Button POWER | Press this to switch the power between on and standby. | Press this to switch the power between on and standby. | Press this to switch the power between on and standby. | |
| A-B REPEAT Button | Marks a segment between A and B for repeated playback. | Marks a segment between A and B for repeated playback. | Marks a segment between A and B for repeated playback (CD, Super Audio CD). | |
| REPEAT Button | Allows you to repeat play a Group (DVD-Audio), Title, or Chapter. | Allows you to play a Track or Disc repeatedly. | Allows you to play a Track or Disc repeatedly. | |
| RANDOM Button | Allows you to shuffle the playing order of groups and tracks (DVD-Audio). | | Allows you to play tracks in random order. | |
| MODE Button | To activate the 3D sound (Virtual surround system). To adjust the black level setting. | To activate the 3D sound (Virtual surround system). To adjust the black level setting. | Allows you to program a specific order. To activate the 3D sound (Virtual surround system) (CD, MP3, WMA). | |
| ZOOM Button | To magnify part of the picture (x2/x4). | To magnify part of the picture (x2). | To magnify part of the picture (x2) (JPEG). | |
| ANGLE Button | Accesses various camera angles on the disc. | _ | _ | |
| SUBTITLE Button | Accesses various subtitles on the disc. | _ | _ | |
| AUDIO Button | Accesses various audio functions on the disc. | • To select STEREO, L-CH or R-CH. | To select STEREO, L-CH or R-CH (CD). | |
| DISPLAY Button | Displays the current disc mode. | Displays the current disc mode. | Displays the current disc mode. | |
| SEARCH MODE Button | To search for a chapter, title, time or marker. To rapidly return to a location on disc. | To search for a track, time or marker. To rapidly return to a location on the disc. | To search for a track. To search for time or a marker (CD, Super Audio CD). To rapidly return to a location on the disc. | |
| 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 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑥ ① ﴿୩) | To select a chapter or title directly. | To select a track directly. | To select a track directly. | |
| CLEAR Button | Clear the markers. Clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. | Clear the markers. Clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. | Clear the markers. Removes a status number in program input. Clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. | |

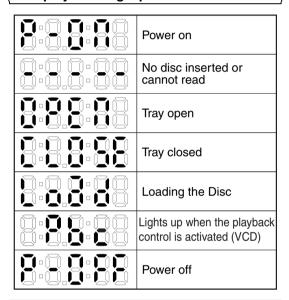
Tour of the remote control

| | DVD | VCD | CD / Super Audio CD / MP3 / JPEG / WMA | |
|-----------------------|--|--|---|--|
| MENU Button | To call up the Menu on a disc. | | To call up the FILE LIST (MP3, JPEG, WMA). | |
| TOP MENU Button | To call up the Top Menu on a disc. | _ | To return to the first item in the hightest hierarchy of the FILE LIST. | |
| ENTER, Cursor Buttons | Moves the cursor and determines its position. | Moves the cursor and determines its position. | Moves the cursor and determines its position. | |
| RETURN Button | To return to the previous operation in the DVD setup menu. | To return to the previous operation in the DVD setup menu. | _ | |
| SETUP Button | To call up the DVD player's Setup menu. | To call up the DVD player's Setup menu. | To call up the DVD player's Setup menu. | |
| SKIP Buttons | To skip Chapters. To skip Tracks (DVD-Audio). | To skip Tracks. | • To skip Tracks. | |
| REV / FWD Buttons | Allows you to search forward/backward through a disc. To begin slow forward/ slow reverse. | Allows you to search forward/backward through a disc. To begin slow forward. | Allows you to search forward/backward through a disc (CD, Super Audio CD, MP3, WMA). | |
| STOP Button | To stop playback. | To stop playback. | To stop playback. | |
| PLAY Button | To begin disc play. | To begin disc play. | To begin disc play. | |
| PAUSE Button | To pause disc play. Advances playback one frame at a time. | To pause disc play. Advances playback one frame at a time. | To pause disc play. | |
| GROUP Button | To select the group to playback (DVD-Audio). | _ | _ | |
| PAGE Buttons | To select the image to be displayed (DVD-Audio). | _ | _ | |
| SOUND MODE Button | _ | _ | Displays playback options (MULTI-CH, CD, 2CH) (Super Audio CD). | |

Panel display



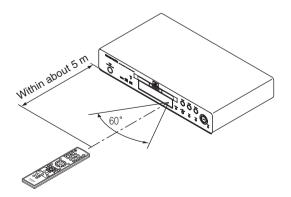
Displays During Operation



Using the remote control

Keep in mind the following when using the remote control:

- Make sure that there is no obstacle between the remote and the remote sensor on the unit.
- Use within the operating range and angle, as shown.



Loading the Batteries

1. Open the battery compartment cover.



2. Insert two "AA" (R6P) batteries, with each one oriented correctly.



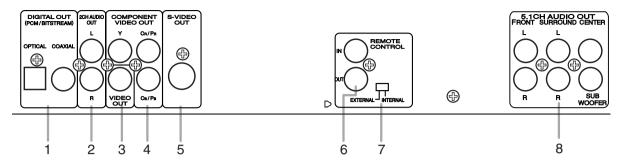
3. Close the cover.



Cautions On Batteries

- Use "AA" (R6P) batteries in this remote control unit.
- Replace the batteries with new ones approximately once a year, though this depends on the frequency with which the remote control unit is used.
- If the remote control unit does not operate from close to the main unit, replace the batteries with new ones, even if less then a year has passed.
- The included batteries are only for verifying operation. Replace them with new batteries as soon as possible.
- When inserting the batteries, be careful to do so in the proper direction, following the ⊕ and ⊖ marks in the remote control unit's battery compartment.
- To prevent damage or battery fluid leakage:
 - Do not use a new battery with an old one.
 - Do not use two different types of batteries such as alkaline and manganese.
 - Do not short-circuit, disassemble, heat or dispose of batteries in flames.
- Remove the batteries when not planning to use the remote control unit for a long period of time.
- If the batteries should leak, carefully wipe off the fluid from the inside of the battery compartment, then insert new batteries.

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 Jack

Connect to the Audio input jacks of A/V-compatible TV or wide screen TV, Stereo system.

3. VIDEO OUT Jack

Use a video cable to connect one of the jacks to Video input on your A/V-compatible TV, wide screen TV, or Stereo system.

4. COMPONENT VIDEO OUT Jacks

Use these jacks if you have a TV with Component Video in jacks. These jacks provide C_R/P_R, C_B/P_B 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. REMOTE CONTROL IN/OUT Jacks

By connecting this DVD player to another Marantz audio component using a supplied Remote Control bus cable, you can remotely operate the components as a signal system.

7. REMOTE CONTROL EXTERNAL / INTERNAL Switch

Set this switch to "INTERNAL" when using this DVD player independently. If you use this DVD player in a system with a Marantz receiver equipped with a remote sensor, set the switch to "EXTERNAL".

8. 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.

NOTES:

- When connecting to component with a remote sensor, be sure to connect the "REMOTE CONTROL IN" jack of this DVD player to the "REMOTE CONTROL OUT" jack of the component.
- When connecting to component without a remote sensor, be sure to connect the component to the "REMOTE CONTROL OUT" jack of this DVD player.

Selecting Progressive Scan (525p/480p or Interlaced 525i/480i) Playback

- If your TV is compatible with progressive scanning (525p/480p), connect the TV to the COMPONENT VIDEO OUT jacks of the DVD player and set "PROGRESSIVE" to "ON" in the display setting. Next, set your TV to the progressive scan mode. Refer to page 26 for instructions on changing the display setting.
- If your TV is not compatible with progressive scanning, set "PROGRESSIVE" to "OFF".
- Use a commercially available adaptor if the video input jacks of your TV or monitors is 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 (525i/480i) television signals.

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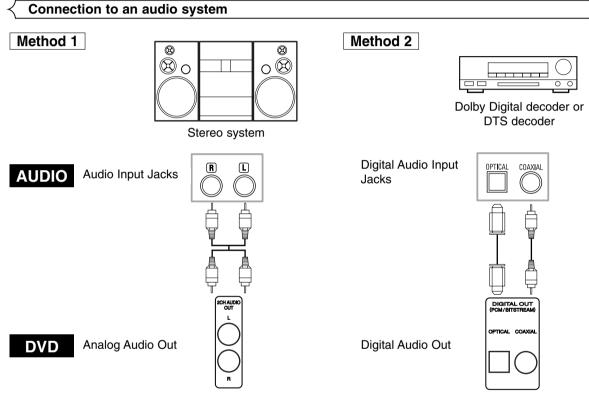
CONNECTIONS

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 Dolby Digital 5.1 channel 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. Dolby Digital 5.1 channel 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 1 DVD Player + Stereo system
- Method 2 DVD Player + Dolby Digital decoder or DTS decoder

NOTES:

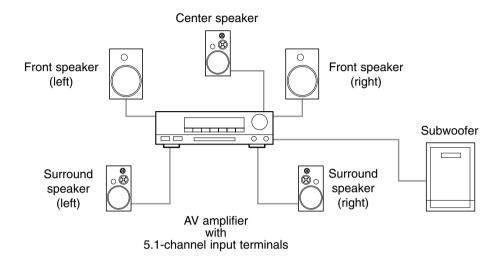
- When using Dolby Digital or DTS decoder, set "DOLBY DIGITAL" to "ON" or "DTS" to "DTS" accordingly for audio output in the setup mode (refer to page 27). Set "DOLBY DIGITAL" to "OFF" or "DTS" to "PCM" for the decoder that is not used currently. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers.
- The audio source on a disc in Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD or DAT deck.
- Set "DOLBY DIGITAL" to "OFF" or "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 27.)
- 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.

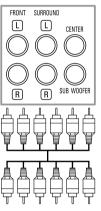
Connection to 5.1-channel Surround Sound system

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.



AUDIO

To 5.1CH Audio IN Jacks

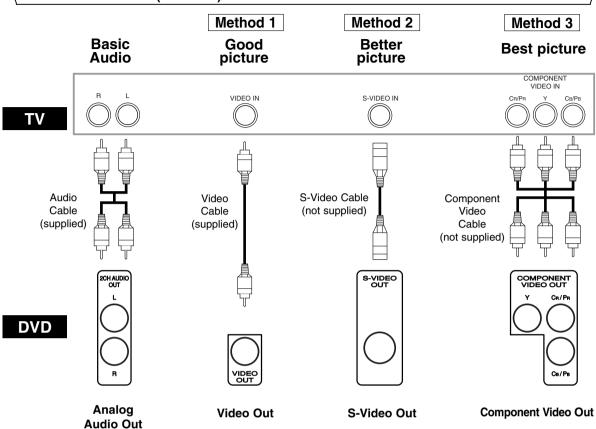


DVD

5.1CH Audio OUT



Connection to a TV (for video)



- 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:

- 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.

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.

PLAYING A DISC

Basic Playback

DVD-A DVD-V DVD-RW VCD CD

SUPER AUDIO CD MP3 JPEG WMA

Getting started

- Turn on the power of the TV, amplifier and any other components which are connected to the DVD Player.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.
- I Press the **POWER** button.
 - "P-ON" will appear briefly on the display panel.
- Press the OPEN/CLOSE button to open disc loading tray.
- 3 Place the disc in the tray, with the label facing up.
- 4 Press the **PLAY** button.
 - The tray will close automatically, then playback will start from the first chapter or track of the disc. If the playback does not start automatically, press the PLAY button.
 - When you playback the DVD with a title menu, it may appear on the screen. In this case, refer to "Title menu".
- 5 Press the STOP button to stop playback.

NOTES:

 A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc.



- With DVDs that use some titles for playback program signals, playback may start from the second title, or it may skip these titles.
- During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- The operation may vary when you playback DVDs with disc menu or Video CDs with PBC. Refer to the manual accompanying the disc for details.
- A DVD-RW disc recorded in the VR mode may freeze momentarily during playback depending on how the playlist was made and edited (deleted titles, repeated recording).

CANCELLING AND CALLING BACK THE PBC FUNCTION

VCD

- Insert a Video CD.
- 2 Press the STOP button.
- Press the Numeric buttons to enter the desired Track number.
 - The PBC function is now cancelled and the playback of the Video CD will start.
- To call back the PBC function, press the STOP button twice, and then press the PLAY button.
 - · Title menu will appear on the display.

General Features

DVD-A DVD-V DVD-RW

DVD may contain menus to navigate the disc and access special features. Press the appropriate numerical key or use the **Cursor** buttons ($\P/A/\P$) to highlight your selection in the DVD main menu and press the **ENTER** button to confirm. **NOTE:**

 Unless stated, all operations described are based on remote control use. Some operations can be carried out using the menu bar on the TV screen.

Still / Pause

DVD-A DVD-V DVD-RW VCD CD

SUPER AUDIO CD MP3 JPEG WMA

- During playback, press the PAUSE button.
 - Playback will pause and sound will be muted.
- 2 To continue playback, press the PLAY button.

NOTE

• Set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 26.)

Disc Menus

DVD-V

Ш

- Press the **MENU** button.
 - The DVD main menu will appear.
- 2 If the feature is not available, \$\infty\$ symbol may appear on the TV screen.
- If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.
- ☑ Press the Cursor buttons (▼/ ▲/ ►/ ◄) to select an item, and the ENTER button to confirm selection.

Title Menu

DVD-A DVD-V

- Press the **TOP MENU** button.
 - The title menu will appear.
- 2 If the feature is not available, \infty symbol may appear on the TV screen.
- Press the Cursor buttons (▼/ ▲/ ►/ ◀) to select an item, and the ENTER button to confirm selection.
 - Playback will begin at the selected Title.

VCD

- When playing a Video CD with PBC function, the title menu will appear automatically.
- Press the Numeric buttons to select the desired title.
 - Playback will begin at the selected Title.
- Press the **RETURN** button to go back to the title

CALLING UP A MENU SCREEN DURING PLAYBACK

DVD-A DVD-V

- For DVD-Videos, press the MENU button to call up the DVD main menu.
- Press the **TOP MENU** button to call up the title menu.

NOTE:

 Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

Step by Step Playback

DVD-A DVD-V DVD-RW **VCD**

Only moving picture

- During playback, press the PAUSE button.
 - · Playback will pause and sound will be muted.



3 To exit step by step playback, press the **PLAY** button.

NOTE:

 Set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 26.)

Resume

DVD-A DVD-V DVD-RW **VCD** CD SUPER MP3 JPEG WMA

During playback, press the STOP button.

 Resume message will appear on the TV screen.

2 Press the PLAY button. Playback will resume from the point at which playback was stopped.

• To cancel resume, press the STOP button twice.

NOTES:

- Some Video CDs with the PBC function resume playback from the beginning of the track.
- The resume information will be saved even when the power is switched off.
- For MP3, JPEG or WMA, playback will resume from the beginning of the current track.

Playing the disc recorded in VR mode (Video Recording format)

DVD-RW

Resume ON

Ш

DVDs recorded in VR mode can have a PLAYLIST assigned to alter the order or content to be played. If a PLAYLIST has been created, you can choose the ORIGINAL or PLAYLIST option.

Press **MENU** in stop mode.

- The current setting screen will appear.
- Pressing MENU during playback is not valid.





- 2 Press or ► to select ORIGINAL or PLAYLIST.
 - PLAYLIST will not be displayed when it has not been made. Resume playback will not be possible if you change the setting.
- Press ▲ or ▼ to select a title, then press ENTER.
 Playback will start.

NOTE:

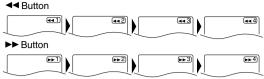
[ORIGINAL]: A list of titles which are recorded with a DVD recorder.

[PLAYLIST]: A list of titles which is made based on the ORIGINAL edited list.

Fast Forward / Reverse Search

CD DVD-A DVD-V DVD-RW VCD SUPER AUDIO CD MP3 **WMA**

- During playback, press the ►► or ◄◄ button repeatedly to select the required forward or reverse speed.
 - For DVDs, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1 (x2), 2(x8), 3 (x50), and 4 (x100).



- · For Video CDs, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1(x2), 2(x8) or 3(x30).

 • For Audio CDs and Super Audio CDs, the approximate
- speed is x16
- For MP3 and WMA, the approximate speed is x8. 2 To return to normal playback, press the **PLAY** button.

Slow Forward / Slow Reverse

|DVD-A| |DVD-V| |DVD-RW| **VCD** Only moving nicture

▶▶ Buttor

№1

▶ 2

- During playback, press the PAUSE button.
- 2 Press the ▶▶ or ◄◄ button.
 - · Slow motion playback will begin and sound will be muted.
- In Press the ►► or ◄◄ button repeatedly to select the required speed.
 - Slow forward or reverse speed is different depending on the disc. Approximate speed is 1 (1/16), 2 (1/8), and 3 (1/2).
- 4 To return to normal playback, press the **PLAY** button. NOTES:
 - · Set "STILL MODE" to "FIELD" on the Display menu if pictures in the slow playback mode are blurred. (Refer to page 26.)
 - Only Slow Forward is available when playing Video

Zoom

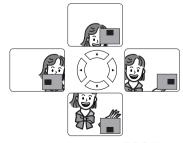
DVD-A DVD-V DVD-RW **JPEG** VCD

The Zoom function allows you to enlarge the video image and to move the zoomed image.

- Press the ZOOM button during playback.
 - Playback will continue.
- 2 Press the **ZOOM** button repeatedly to select the required zoom factor: x2, x4 or OFF.
 - Only x2 zoom is available on Video CDs and JPEG.



3 Use the Cursor buttons (▼ / ▲ / ▶ / ◀) 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
 - Navigation screen is not available on JPEG.
 - You cannot move the zoomed picture on some JPEG files.

Title / Chapter Search

DVD-V DVD-RW

By using the SEARCH MODE button

I Press the **SEARCH MODE** button repeatedly until the Chapter search, or the Title search appears 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** | button to go back to the beginning of the current chapter. Press it repeatedly to go to the previous chapter.



DVD-A CD VCD

SUPER AUDIO CD MP3 **JPEG WMA**

There are three ways to begin the playback of a specific track.

By using the Numeric buttons

- 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 (e.g. track 3, press 3).

 • To play track 26, press +10, 2, 6 on the Numeric button.

By using the SEARCH MODE button

- Press the SEARCH MODE button.
 - The track search display appears.
- 2 Within 30 seconds, select a desired track number using the Numeric

buttons. For single digits press 0 first if the total track of the disc is more than 10 tracks.

Playback will start at the selected track.

 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 front panel display.
- 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 |◄◄ ▶►| buttons are not available when playback is stopped.

Page Selection

DVD-A

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

During playback, press the PAGE + or - button to select the desired page number to be displayed.



Playing from a Desired Group

DVD-A

During playback or in stop mode, press the GROUP but-



- 2 Press the **Numeric** buttons to select a group.
 - The Group will be located and playback will start.

Playback of the Bonus Group

DVD-A

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

- 1 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.

Time Search

DVD-A DVD-V DVD-RW VCD CD SUPER AUDIO CD

■ Press the **SEARCH MODE** button until the Time Search screen appears on the TV screen.



- 2 Within 30 seconds, enter a
 - desired disc time with the Numeric buttons.
 - Playback will start at the specified time.
 - For Time Search, "0" appears automatically when there is no need to enter a number. For example, appears in the Time Search screen if the "O:O total time of the disc is less than 10 minutes.
- 3 Press the CLEAR button to erase an incorrect input.

Repeat

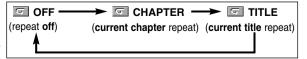
The REPEAT button is available only during playback.

REPEAT TITLE / CHAPTER

DVD-V

To activate the repeat function, press the REPEAT button during playback.

 The repeat mode changes as described below every time you press the button.



DVD-RW



NOTES:

- The Repeat Title/Chapter setting will be cleared when moving to other title or chapter.
- · Repeat playback does not function during A-B repeat playback.
- Repeat Title/Chapter is not available with some scenes.

REPEAT TRACK / GROUP / ALL

SUPER AUDIO CD VCD CD

To activate the repeat function, press the REPEAT button during playback.

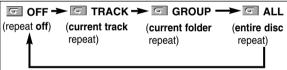
The repeat mode changes as described below every time you press the button.



NOTES:

- The Repeat Track setting will be cleared when moving to other track.
- Repeat playback does not function during A-B repeat playback.
- Repeat playback is not available when playing the Video CD with PBC function.





NOTE:

 The Repeat Track/Group setting will be cleared when moving to other Track or Group.

A-B REPEAT

DVD-A DVD-V DVD-RW **VCD** CD SUPER AUDIO CD

- Press the A-B REPEAT button at your chosen starting point.
 - screen.
- 2 Press the A-B REPEAT button again at your chosen end point.
 - TV screen, and the repeat sequence begins.
- 3 To exit the sequence, press the A-B REPEAT button.

G OFF

G A -

G A - B

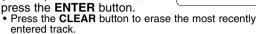
- The A-B Repeat section can only be set within the current title (for DVDs), or current track (for Audio CDs, Video CDs).
- A-B Repeat is not available with some scenes in DVD.
- To cancel the A point which was set, press the CLEAR button.
- A-B Repeat playback does not function during title, chapter, track or all repeat playback.

Program Playback (CD/Super Audio CD/DVD-Audio)

SUPER AUDIO CD CD

You may determine the order in which tracks will play.

- In stop mode, press the MODE button.
 - The PROGRAM screen will appear.
- 2 Press the Cursor buttons (▲ or ▼) to select a track, then



3 Press the PLAY button to play the programmed tracks.

NOTES:

- Press the STOP button once and then the PLAY button. again, playback will restart from the point where the STOP button was pressed. (Program continued.)
- Press the STOP button twice and then the PLAY button again, playback will restart from the first track in the usual way. Your program will be saved until either the disc tray is open or power is turned off.
- Up to 99 tracks can be set in a program.
- To erase all the programmed tracks at once, select ALL CLEAR at the bottom of the list at step 2.
- To repeat the current track in the program, press the **REPEAT** button repeatedly until **TRACK** appears during playback. To repeat the entire program press the REPEAT button repeatedly until . ALL appears during playback.
- Refer to page 22 for "Program Playback" of MP3, WMA, and JPEG.
- If eight or more tracks were in a program, use the SKIP button ◄ or ▶ to see all the tracks.

DVD-A

- In stop mode, press the **MODE** button repeatedly until the PROGRAM screen appears.
- 2 Press the Cursor buttons (▲ or to select a group, then press the ENTER button.
 - The track selection screen will be
 - It takes approximately 5 seconds until the track selection screen appears.
- 3 Press the Cursor buttons (▲ or ▼) to select a track, then press the ENTER button.
 - Press the

 button to go back to the group selection screen from the track selection screen.
- 4 Press the **PLAY** button to play the programmed tracks.

NOTES:

- It may take time for all the respective track times to be displayed.
- The programmed content is retained until the power is turned off or the disc tray is opened.
- · 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 |◀◀ or ▶▶|.



Playback of All Groups

DVD-A

- 11 In stop mode, press the MODE button.
 - ALL GROUP screen appears.
- 2 Press the PLAY button to play.



Random Playback (CD/Super Audio CD/DVD-Audio)

CD

SUPER AUDIO CD

This shuffles the playing order of tracks instead of playback in the original sequence.

- In stop mode, press the RAN-DOM button.
 - The RANDOM screen will appear.



Press the PLAY button to start random playback.

NOTES:

- To repeat the current track in the random selection, press the REPEAT button repeatedly until TRACK appears during playback. To repeat the entire random selection press the REPEAT button repeatedly until
 ALL appears during playback.
- Refer to page 22 for "Random Playback" of MP3, WMA, and JPEG.

DVD-A

- In stop mode, press the RAN-DOM button.
 - The RANDOM screen will appear.



- Press the Cursor buttons (▲ or ▼) to select the desired group to playback randomly, then press the ENTER or PLAY button.
 - · Random playback will start.

MP3 / JPEG / WMA Playback

MP3

JPEG WMA

When a CD-R or CD-RW disc with MP3, JPEG or WMA files is inserted in the DVD player and the **MENU** button is pressed, the FILE LIST will appear on display. The number of tracks is also displayed on the front panel.

- Press the Cursor buttons (\(\text{\lambda} \) or \(\neq \)) to select the desired group (folder) or track.
 - To return to the previous screen, press the

 button.
 - If a group (folder) is selected, press the ➤ or ENTER button to go on to the track selection screen. Press the Cursor buttons (▲ or ▼) to choose a track, then press the PLAY or ENTER button.
 - If a track is selected, press the PLAY or ENTER button to start playing tracks. The selected track and the subsequent tracks will be played.
 - Press the TOP MENU button to return to the first item.
- 2 Press the STOP button to stop playback.

NOTES

- Folders are known as Groups; files are known as Tracks.
- A symbol of "\overline" is shown on the top of the group name.
- A symbol of "2" is shown on the top of MP3 files.
- A symbol of "O" is shown on the top of JPEG files.
- A symbol of "D" is shown on the top of WMA files.
- If there are more than eight tracks, a down arrow "▼" appears on the screen. Use the Cursor buttons (▲ or ▼) to see all the tracks.
- Maximum of 255 folders can be recognized.
- Maximum of 512 files can be recognized. The group (folder) which contains 513th track or above may not be recognized.
- Up to 8 hierarchies can be created.
- If no MP3, JPEG or WMA files are found in the group, the group is not displayed.
- The DVD player can reproduce data recorded as per ISO 9660 Level 1, Level 2 or Joliet on the disc.
- It can also run a disc on which data is recorded in a multi-session.
- For more details of recording systems, refer to the instruction manual for the CD-R / CD-RW drive or the writing software.

PLAYING A DISC

Applicable MP3 file

This player recommends the use of files recorded at the below specifications:

Remarks

| Sampling frequency | 44.1kHz 48kHz | It is prohibited to record MP3 sound on a digital device when connection is made digitally. | | |
|---|------------------------|--|--|--|
| Туре | MPEG1 audio layer 3 | MP3 files recorded at fixed bit rate of 112 kbps or high- er are recommended. | | |
| Applicable JP | EG file | Remarks | | |
| Size of image Upper limit: 6300x5100 dots Lower limit: 32x32 dots | | A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen. | | |
| Applicable WN | //A file | Remarks | | |
| Sampling frequency | 44.1kHz 48kHz | Those frequencies are applicable to WMA version 9. | | |
| Bit rate | 48-192kbps | Ensure that the copyright function is set to off when preparing a WMA disc. | | |
| Туре | WMA version 9 | A prohibition "disable" symbol will appear if the user attempts to run a non-reproducible file such as copyright-protected. Recorded in 5.1 channel format cannot be played back. | | |

Information on MP3, JPEG and WMA discs

- This DVD player can play back images and sounds from data recorded in MP3, JPEG and WMA formats on CD-R and CD-RW discs.
- 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 called a "JPEG file".
 - The DVD player can run an image file conforming to the Exif specification. Exif 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 "WMA file".
- Files whose extension is other than ".mp3 (MP3)", ".jpg (JPG)" and ".jpeg (JPEG)" or ".wma (WMA)" will not be listed in the MP3, JPEG or WMA menu.
- If the file is not recorded in MP3, JPEG or WMA format, noise may be produced even if the file extension is either ".mp3 (MP3)", ".jpg (JPG)", ".jpeg (JPEG)" or ".wma (WMA)".
- The name of group and track can be displayed in up to 25 characters. Unrecognisable characters will be replaced with asterisks. The ninth and deeper hierarchies cannot be displayed.
- Unplayable groups or tracks may be displayed depending on the recording conditions.
- If the TOP MENU button is pressed when a file list is displayed, the first item will be highlighted.

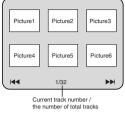
Kodak Picture CD

The DVD player can also run JPEG files stored on Kodak Picture CDs.

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

Press the **MENU** button. Kodak Picture CD menu appears.

 If all menu items cannot be displayed in the screen scope, "▶►I" appears at the right bottom of the screen, indicating that the user can view remaining items on the



- If "►►I" is shown at the right bottom, use the SKIP ►►I button to view the next page. If "I◄◄" is shown at the left bottom, use the SKIP I◄◄ button to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.
- Press the Cursor buttons (◄/►/▲/▼), select a desired track to be played, then press the PLAY or ENTER button.
 - If a Kodak Picture CD file is selected, an image will be played back from the selected track and go to the next one in turn.
- 3 Press the STOP button, to stop playback.

Notes on JPEG and Kodak Picture CD:

- A track is displayed for 5 seconds and then the next track is displayed.
- Every press on the ➤ button will turn the image clockwise by 90 degrees when an image is displayed. A press on the

 button will turn the image counterclockwise by 90 degrees.

Notes on WMA:

- The DVD player can reproduce data recorded as ISO 9660 level 2 with 31 characters file name included punctuation marks. The name of file can be displayed in up to 25 characters.
- Maximum of 8 subfolders can be recognized.
- It can also be displayed tag information of WMA 64 characters at maximum.
- For a file name with an extension of Joliet as Unicode format, up to 64 characters can be recognized.

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.

CUT IN/OUT: The entire image appears in one time. FADE IN/OUT: The image appears gradually and then disappears.

3 Press the MODE button to exit.

On-Screen Information

MP3 JPEG

You can check information on the current file.

- 1 Press the **DISPLAY** button.
 - The name of the file currently in play will be displayed.



2 Press the **DISPLAY** button to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.



- \(\sigma\) will be displayed when the repeat play has been selected.
 - T indicates Track repeat
- 3 Press the **DISPLAY** button to exit.
 - During program or random playback, each playback status will be displayed when you press the DISPLAY button. Then press the DISPLAY button to exit.

WMA

You can check information on the current file.

- 1 Press the **DISPLAY** button.
- The name of the file currently in play will be displayed.



- 2 Press the **DISPLAY** button.
 - Title name based on tag information currently in play will be displayed.



- 3 Press the **DISPLAY** button.
 - Artist name based on tag information currently in play will be displayed.



Press the DISPLAY button to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.



- — will be displayed when the repeat play has been selected.

 - G indicates Group (folder) repeat
 - ← A indicates Disc repeat
- Press the DISPLAY button to exit.
 - During program or random playback, each playback status will be displayed when you press the DISPLAY button. Then press the DISPLAY button to exit.

NOTE:

 If the file does not contain tag information, "NOT AVAIL-ABLE" will be displayed.

Program Playback (MP3/JPEG/WMA)

MP3 JPEG WMA

This feature allows you to program an MP3, JPEG or WMA disc to play in a desired sequence.

- In stop mode, press the **MODE** button.
 - The PROGRAM screen will appear.
- Press the Cursor buttons (▲ or ▼) to select a group, then press the ENTER button.
 - A track selection screen appears.
- 3 Press the Cursor buttons (▲ or ▼) 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.
- To erase all the programmed tracks at once, select ALL CLEAR at the bottom of the list at step 2.
- Press the RETURN button, and the STOP screen will show up with the program contents in memory.
- Press the STOP button once and then press the PLAY button, playback will restart from the beginning of the track being played previously. (program continued.)
- Press the STOP button twice and then the PLAY
 button again, playback will restart from the first track in
 the usual way. Your program will be saved until either
 the disc tray is open or power is turned off.
- 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 were in a program, use SKIP button I◄◄ or ▶►I to see all the tracks.

Random Playback (MP3/JPEG/WMA)

MP3 JPEG WMA

- In stop mode, press the **RANDOM** button.
- The RANDOM screen will appear.
 Press the PLAY button to play
- Press the **PLAY** button to play the tracks in random order.
 - · Random play starts.
 - For a disc containing mixed MP3, JPEG and WMA files, random play of those files will be performed.







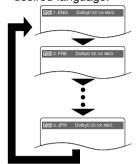


Audio Language or Sound Mode

DVD-V DVD-RW

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

- 1 Press the AUDIO button during playback.
- Press the AUDIO button repeatedly to select your desired language.





NOTES:

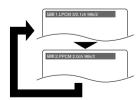
- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Some discs allow to change audio language setting on the disc menu. (Operation varies between discs. Refer to the manual accompanying the disc.)
- Pressing the AUDIO button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow to change audio language setting on the disc menu).
- If you choose a Language that has a 3-letter language code, the code will be displayed every time you change the Audio language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 29.)
- For DVD-RW (VR mode), pressing AUDIO cycles the sound mode through MAIN, SUB, and MAIN+SUB.
- For DVD-RW (VR mode), discs recorded in double sound (two languages) can be played back in sound mode of MAIN, SUB, or MAIN+SUB. With the digital connection, the audio language of DVD-RW (VR mode) with double sound will not be affected even though you can change the setting on the display.
- 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.)

DVD-A

- 1 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.)



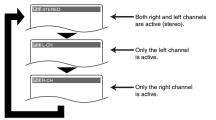
Stereo Sound Mode

VCD CD

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 1 or 2, the sound mode will be fixed to STEREO.
- Stereo sound mode cannot be changed when playing DTS-CD.
- 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.)

Sound Mode

SUPER AUDIO CD

■ Press the SOUND MODE button repeatedly to select MULTI-CH AREA, 2CH AREA, or CD AREA.

MULTI-CH AREA: Playback in multi channel format.

The number of channels depends on

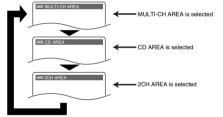
the disc being played.

2CH AREA: Play back in higher quality than that

of AUDIO CD sound.

CD AREA: Playback in the sound quality equiv-

alent to Audio CDs.



NOTES:

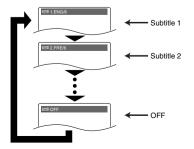
- Some playback options may not be available. They will be skipped.
- MULTI-CH AREA is selected as default.

Subtitle Language

DVD-V DVD-RW

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

- 1 Press the **SUBTITLE** button during playback.
- 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.
 - Press the Cursor buttons (or ▶) to turn ON or OFF subtitles during playback.



To turn off subtitles, press the **SUBTITLE** button repeatedly until OFF appears.

NOTES:

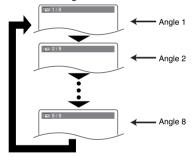
- Some discs allow subtitle language setting on the disc menu. (Operation varies between discs. Refer to the manual accompanying the disc.)
- Pressing the SUBTITLE button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).
- If the 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 29.)
- If the disc has no subtitle language, 'NOT AVAILABLE' will be displayed.

Camera Angle



Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the mark ($\stackrel{\frown}{\square}_1$) 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.



NOTE:

• If the "ANGLE ICON" setting is "OFF" in the Display menu, the mark (into appear.

Changing the On-Screen Display

DVD-V DVD-RW

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 the current chapter.



- The elapsed and remaining playing time of the current chapter will be displayed.
- 2 Press the **DISPLAY** button to show the current title.
 - The elapsed and remaining playing time of the current title will be displayed.
- Press the DISPLAY button to show the BIT RATE and the current repeat setting.
 - 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).



- If you are playing a DVD-RW with setting the PLAYLIST, the following will also be displayed.
 ORG: Playing the ORIGINAL— PL: Playing the PLAYLIST.
- □ □ □ □ ORG ►
- 4 Press the DISPLAY button to remove the display.

VCD CD SUPER AUDIO CD

- 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 to show the total tracks.
 - The elapsed and remaining playing time of the disc will be displayed.
 - If you are playing a Super Audio CD, press the DISPLAY button again to show the area currently being played.
- 3 Press the **DISPLAY** button to remove the display.
 - 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.

Hints for the On-Screen Display

- ←C indicates Chapter repeat
- GT indicates Title or Track repeat
- A indicates Disc repeat
- A⊆B- indicates A-B repeat

DVD-A

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 Track.
 - The elapsed and remaining playing time of the current track will be displayed.
- Press the DISPLAY button again to show current Group.
 - The elapsed and remaining playing time of the current group will be displayed.
- Press the DISPLAY button for the third time.



- The BIT RATE and the current repeat setting will be displayed.
- 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 for the fourth time to remove the display.
 - During all group, program, or random playback, each playback status will be displayed when you press the DISPLAY button. Then press the DISPLAY button again to exit.

Hints for the On-Screen Display

- ←C indicates Chapter repeat
- GT indicates Title or Track repeat
- G indicates Group (folder) repeat
- SA indicates Disc repeat
- A⊆B- indicates A-B repeat

Marker Setup Screen

DVD-A DVD-V DVD-RW SUPER AUDIO CD

VCD

Use markers to memorize your favorite places on a disc.

Press the SEARCH MODE button repeatedly until the display screen and Markers appear during playback.



- Press the Cursor buttons (◀ or ►) to select 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 and ensure that "_:__:_ appears in the display.
- When the disc reaches the point you want to remember, press the **ENTER** button.
 - The Title or Track and elapsed playing time will appear in the TV screen.
- 4 To return to the Marker later, press the SEARCH MODE button repeatedly during playback and the dor button to choose the desired marker, then press the ENTER button.

NOTES:

- Opening the disc tray or turning off the power or select AC at step 2 and press the ENTER button will erase all Markers
- To clear a marker, using the

 or

 button, position
 the cursor on to the marker number to be cleared and
 press the CLEAR button.
- You can mark up to 10 points.
- Press the SEARCH MODE or RETURN button to exit.

Virtual Surround

DVD-A DVD-V DVD-RW VCD CD MP3 WMA

You can enjoy surround-sound effect with two speakers.

- During playback, press the MODE button repeatedly until the Virtual Surround setting appears.
- Press the ENTER button to set it 1(Natural effect), 2(Emphasised effect) or OFF.



Press the RETURN button to exit.

NOTES:

- Select Virtual Surround OFF or adjust the volume down if the sound is distorted.
- Virtual Surround will not be effective if the sound mode is set to something other than "STEREO" (for Audio CDs or Video CDs play only).
- The setting will be saved even if the player is turned off.
- When 5.1CH is selected as the audio channel in the audio setting of the setup menu, Virtual Surround does not function. Details are on page 27.
- The Virtual Surround setting is not available for Super Audio CDs. (It may be possible to use the Virtual Surround setting when playing back discs that include a CD area.)

Black Level Setting

DVD-A DVD-V DVD-RW VCD

ON ON

Adjust the Black Level Setting to make the black parts of the picture as bright as you prefer.

- During playback, press the MODE button repeatedly until Black Level setting appears.
- Press the ENTER button to switch ON/OFF.

ON (Default) : Makes the dark parts brighter.

OFF: Shows the original picture as recorded.

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

NOTE:

• The setting will be saved even if the player is turned off

Audio-EX Mode



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

- Press the AUDIO EX. button on the front panel to output analog audio signals only. (No video signal will be output, and the display will be turned off.)
 - The AUDIO EX. indicator will light up.
 - The higher quality sound will be achieved.

NOTES:

- In SETUP menu, the AUDIO-EX mode is not available.
- The AUDIO-EX mode will be released when you press the buttons listed below.

OPEN/CLOSE button (on both the remote and the front panel), SETUP, POWER or DISPLAY button (on the remote), POWER ON/STANDBY or AUDIO EX. button (on the front panel)

(on the front panel).

• AUDIO EX. button does not function during displaying SETUP menu.

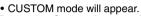
In Setup menu, QUICK mode, CUSTOM mode and INIT. (INITIALIZE) mode (Refer pages 26 to 28) are available. QUICK mode consists of the setting menus often needed, and you can make all settings required in CUSTOM mode. You can make the settings of the items with **QUICK** mark in QUICK mode.

Language Setting

Language options are not available with some discs.

Press the SETUP button in stop mode.
 Press the Cursor buttons (◄

2 Press the Cursor buttons (◀ or ▶) to select CUSTOM, then press the ENTER button.



Press the Cursor buttons (◀ or ►) to select LANGUAGE, then press the ENTER button to confirm.

4 Press the Cursor buttons (▲ or ▼) 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)

• Sets the language for DVD Menu.

PLAYER MENU

(Default : ENGLISH) QUICK

Sets the language for the On-Screen display.
 Press the Cursor buttons (▲ or ▼) to select a setting, then press the ENTER button.

- If OTHER is selected in the AUDIO, SUBTITLE or DISC MENU screen, press 4-digit number to enter the code for the desired language. (Refer to the language code list on page 29.)
- Only the languages supported by the disc can be selected.
- 6 Press the **SETUP** button to exit.

NOTE:

 Language Setting for AUDIO and SUBTITLE is not available with some discs. Then use the AUDIO and SUBTITLE buttons. Details are on page 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 Cursor buttons (
 or
) to select CUSTOM,
 then press the ENTER button.
 - CUSTOM mode will appear.
- Press the Cursor buttons (
 or
) to select DISPLAY, then press the ENTER button to confirm.
- Press the Cursor buttons (▲ or ▼) to select the below items, then press the ENTER button.

TV ASPECT (Default : 16:9 WIDE) QUICK

- Press the Cursor buttons (▲ or
 ▼) for an item selection, then press the ENTER button.
- Select 16:9 WIDE if a widescreen TV is connected to the DVD player.



- 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.

STILL MODE (Default : AUTO)

- Press the Cursor buttons (▲ or
 ▼) for an item selection (AUTO, FIELD, or FRAME), then press the ENTER button.
- This adjusts the resolution of pictures while in the still (PAUSE) mode.
- AUTO is normally selected (default).
- If you select FIELD, pictures in the still mode will be stabilised although they will be coarse due to little amount of data.
- If you select FRAME, pictures in the still mode will be highly defined although they will be blurred due to output of two fields at the same time.

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 Off ON or OFF.
- It will turn the DVD player to off automatically after 35 minutes of no use.

PROGRESSIVE (Default: OFF)

- Press ▲ or ▼ to set PROGRES-SIVE to ON or OFF, then press the ENTER button.
- The setting will be effective
 when you exit the setup screen by pressing SETUP.
- When PROGRESSIVE is ON, "P.SCAN" appears on the DVD player's display.
- · The default setting is OFF.
- Refer to page 12 for more details.

PANEL DISPLAY (Default : BRIGHT)

- Press the Cursor buttons (▲ or
 ▼) for an item select BRIGHT,
 DIMMER and AUTO, then press the ENTER button.
- When AUTO is selected, the display dims only during playback.
- 5 Press the **SETUP** button to exit.

NOTE:

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







Audio Settina

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

- Press the SETUP button in stop mode.
- Press the Cursor buttons (◀ or ▶) to select CUSTOM, then press the ENTER button.
 - CUSTOM mode will appear.
- 3 Press the Cursor buttons (◀ or ▶) to select AUDIO, then the ENTER button to confirm.
- 4 Press the Cursor buttons (A or ▼) button to select the below items, then press the **ENTER** button.

DRC (Dynamic Range Control) (Default : ON)

- · To compress the range of sound
- DRC function is available only on the discs that are recorded in the Dolby Digital format.

DOWN SAMPLING (Default : ON)

- · Set to ON when outputting in 48kHz.
- · This function is available only on digital outputting of a disc recorded in 96 kHz.





When playing disc with copyright protection

• The sound will be down sampled at 48 kHz, even if you set to OFF.

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) QUICK

DTS: Output by DTS sound Set to DTS when the unit is

connected to DTS decoder.

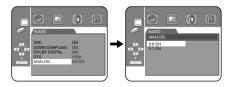
PCM: Convert the DTS sound

to PCM.

ANALOG (Default : 2.0 CH)

2.0 CH: Output 2ch sound

5.1 CH: Output Multi channel sound



Fress the **SETUP** button to exit.

Speaker Setting

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

- Press the Cursor buttons (
 or ▼) to select 5.1CH, then press the ENTER button.
- 2 Press the Cursor buttons (or ▼) to select the below items, then press the ENTER button.



SPEAKER SIZE

- Press the Cursor buttons (A or ▼) to select the speaker to set.
- · 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.

OFF: Select this when it is not connected. (It cannot be set OFF on the FRONT speaker.)

SUB WOOFER (Default: ON)

Select this when SUB WOOFER is connected. ON:

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 lis-

tening position can be virtually created with the delay time setting.

Use the **Cursor** buttons (▲ or ▼) to select the setting item, then press the ENTER button.

• Press the Cursor buttons (▲ or ▼) 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
- When DEFAULT 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). TÉST:

• Press the Cursor buttons (▲ or ▼) to select TEST, then press the **ENTER** button.

The test tone will output from each speaker in turn.

- Press the Cursor buttons (▲ or ▼) to select the speaker to set, then press the ENTER button.
- Press the Cursor buttons (▲ or ▼) 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

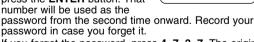
Parental Control limits playback of discs with unsuitable audience ratings. A 4-digit password established by the user will unlock the parental lock.

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

PARENTAL LEVEL

Parental 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.

- Press the **SETUP** button in stop mode.
- 2 Press the Cursor buttons (✓ or ►) to select CUS-TOM, then press the **ENTER** button.
- 3 Press the Cursor buttons (or ▶) to select PARENTAL, then press the ENTER button.
- 4 Press the **Numeric** buttons to enter your 4-digit password.
 - · When doing this for the first time, enter any 4-digit number by pressing the Numeric buttons (except for 4737), then press the ENTER button. That number will be used as the



- If you forget the password, press 4, 7, 3, 7. The original password will be cleared and parental levels will be set to "ALL". Enter a new 4-digit password, then press the ENTER button.
- 5 Press the **Cursor** buttons ▲ or ▼) to select PARENTAL LEVEL, then press the **ENTER** button.



(O) (E)

- 6 Press the Cursor buttons ▲ or ▼) to select the desired level, then press the **ENTER** button.
- 7 Press the SETUP button to exit.

- This function may not work on some DVDs. Be sure if the PARENTAL operates in the way you have set.
- To Change the Password:

 1) Follow the steps 1 to 4 above.
- Press the Cursor buttons (▲ or ▼) to select "CHANGE", then press the ENTER button.
- Enter a new 4-digit password, then press the ENTER but-
- 4) Press the SETUP button to exit.

IF YOU FORGET THE PASSWORD

- 1 Press 4, 7, 3, 7 at step 4.
 - Password will be cleared and rating level will be set to
- 2 Repeat steps 5 to 7 to re-establish the parental lock.

CONTROL LEVELS

- ALL
 - Parental lock is cancelled.
- I evel 8

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.

Returning all selections of SETUP (except for PARENTAL) to their default settings

This allows you to return all selections of SETUP (except for PARENTAL) to their default settings.

- 1 Press the **SETUP** button in stop mode.
- Press the Cursor buttons (or) to select INIT., then press the ENTER button.
- 3 Press the Cursor buttons (▲ or ▼) to select YES, then press the ENTER button.
- 4 Press the **SETUP** button to exit.

NOTE:

If you want to guit initialize, select "NO" at step 3.

DVD SETUP

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

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 page 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, abrasive 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.

TROUBLESHOOTING GUIDE

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 5-10 seconds and then plug it |
| | iin 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 |
| | (Refer to on page 15 for Connecting to a TV (for video)) |
| | -Check if the PROGRESSIVE mode is set correctly according to your |
| | TV. See page 26. |
| 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. |
| | -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 |
| | your receiver capabilities. |
| No DTS audio output | –Use the DIGITAL OUT jack when outputting the DTS audio. |
| 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. |
| | -Insert a correct disc that plays on this player. |
| No return to start-up screen when | -Reset the player by switching the player off, then on again. |
| disc is removed | |
| The DVD player does not respond to | -Aim the remote control directly at the sensor on the front of the player |
| the remote control | -Reduce the distance to the player. |
| | –Replace the batteries in the remote control. |
| | -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 cord from the AC |
| responding | outlet for 5-10 seconds. |
| The remote control does not work | -The REMOTE CONTROL IN jack on the rear panel is connected. |
| | -Check that REMOTE CONTROL EXTERNAL / INTERNAL switch |
| | setting is set to the correct position. |
| The DVD player does not respond to some | -Operations may not be permitted by the disc. |
| operating commands during playback | Refer to the instructions of the disc. |
| The 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 |

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.
- · Some functions are prohibited on some discs.

SPECIFICATIONS

SIGNAL SYSTEM

NTSC color

APPLICABLE DISCS

(1) DVD-Audio/DVD-Video Discs

1-layer 12cm single-sided discs, 2-layer 12cm single-sided discs, 2-layer 12cm double-sided discs (1 layer per side) 1-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 (CD-DA, 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 (75 Ω /ohms) CR/PR output level: 0.7Vp-p (75 Ω /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)

CD:

98dB

: 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: 0.0045%(4) Dynamic range : DVD: 100dB

DIGITAL AUDIO OUTPUT

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

POWER SUPPLY

AC 120V, 60Hz

POWER CONSUMPTION

12 W

MAXIMUM EXTERNAL DIMENSIONS

W: 440mm (17-5/16") H: 75mm (2-61/64") D: 211mm (8-5/16")

MASS

2.2 kg (4.9 lbs)

REMOTE CONTROL UNIT

RC6500DV

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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