

# marantz®

## Model DV4500 User Guide

---

DVD Player



## PRECAUTIONS

### ENGLISH

#### WARRANTY

For warranty information, contact your local Marantz distributor.

#### RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

#### IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

#### FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

### FRANÇAIS

#### GARANTIE

Pour des informations sur la garantie, contacter le distributeur local Marantz.

#### CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

#### IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

### DEUTSCH

#### GARANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

#### HEBEN SIE IHRE QUITTING GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf. Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungswecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

#### WICHTIG!

Bei Garantiefragen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihren Quittung oder Rechnung ist als Unterlage ausreichend.

### NEDERLANDS

#### GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke Marantz.

#### UW KWITANTIE, KASSABON E.D. BEWAREN

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing bijv. in verband met verzekering of bij correspondentie met Marantz.

#### BELANGRIJK

Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur zijn voldoende bewijs.

### ESPAÑOL

#### GARANTIA

Para obtener información acerca de la garantía póngase en contacto con su distribuidor Marantz.

#### GUARDE SU RECIBO DE COMPRA

Su recibo de compra es su prueba permanente de haber adquirido un aparato de valor. Este recibo deberá guardarlo en un lugar seguro y utilizarlo como referencia cuando tenga que hacer uso del seguro o se ponga en contacto con Marantz.

### IMPORTANTE

Cuando solicite el servicio otorgado por la garantía el usuario tiene la responsabilidad de demostrar cuándo efectuó la compra. En este caso, su recibo de compra será la prueba apropiada.

### ITALIANO

#### GARANZIA

L'apparecchio è coperto da una garanzia di buon funzionamento della durata di un anno, o del periodo previsto dalla legge, a partire dalla data di acquisto comprovata da un documento attestante il nominativo del Rivenditore e la data di vendita. La garanzia sarà prestata con la sostituzione o la riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di funzionamento dell'apparecchio. Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza Autorizzati.

Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilità per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale o per guasti dovuti ad uso continuato a fini professionali.

### PORTUGUÊS

#### GARANTIA

Para informações sobre a garantia, contactar o distribuidor Marantz local.

#### GUARDAR O RECIBO DE COMPRA

O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

### IMPORTANTE

Quando procurar assistência técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibo é prova adequada.

### SVENSKA

#### GARANTI

För information om garantin, kontakta Marantz lokalt.

#### SPAR KVITTOT

Kvittot är ett inköpsbevis på en värdefull vara. Det skall förvaras säkert och hänvisas till vid försäkringsfall eller vidkorrespondens med Marantz.

#### VIKTIGT

Fö att garantin skall gälla är det kundens sak att framställa bevis och datum om köpet. Kvitto eller faktura är tillräckligt bevis för detta.

### DANSK

#### GARANTI

Henvend dem til Deres MARANTZ-forhandler angående information om garantien.

#### GEM DERES KVITTERING

Deres købskvittering er Deres varige bevis på et dyrt køb. Den bør gemmes godt og anvendes som bevis, hvis De vil tegne en forsikring, eller hvis De kommunikerer med Marantz.

#### VIGTIGT

Det påhviler forbrugeren at skaffe bevis for købet og købsdatoen, hvis han eller hun ønsker garantiservice. Deres købskvittering eller faktura er et fuldyldigt bevis herpå.

## CE MARKING

- English**  
The DV4500 is in conformity with the EMC directive and low-voltage directive.
- Français**  
Le DV4500 est conforme à la directive EMC et à la directive sur les basses tensions.
- Deutsch**  
Das Modell DV4500 entspricht den EMC-Richtlinien und den Richtlinien für Niederspannungsgeräte.
- Nederlands**  
De DV4500 voldoet aan de EMC eisen en de vereisten voor laag-voltage.
- Español**  
El DV4500 está de acuerdo con las normas EMC y las relacionadas con baja tensión.

- Italiano**  
Il DV4500 è conforme alle direttive CEE ed a quelle per i bassi voltaggi.
- Português**  
O DV4500 conforma com as diretrizes EMC e de baixa voltagem.
- Svenska**  
DV4500 är tillverkad i enlighet med EMC direktiven och direktiven för lågvoltsutrusning.
- Dansk**  
Model DV4500 er i overensstemmelse med EMC-direktivet og direktivet om lavspænding.

## English

### WARNINGS

- Do not expose the equipment to rain or moisture.
- 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.
- Do not cover the ventilation with any items such as tablecloths, newspapers, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Do not place anything about 1 meter above the top panel.
- Make a space of about 0.2 meter around the unit.
- Never spill liquid of any kind on this unit. If liquid is spilled into the unit, consult qualified service engineer.

## Français

### AVERTISSEMENTS

- Ne pas exposer l'appareil à la pluie ni à l'humidité.
- Ne pas essayer de retirer le boîtier de l'appareil.
- Ne rien insérer dans l'appareil par les orifices de ventilation.
- Ne pas manipuler le cordon d'alimentation avec les mains mouillées.
- Ne pas recouvrir les ouïes de ventilation avec un objet quelconque comme une nappe, un journal, un rideau, etc.
- Ne placer aucune source de flamme nue, comme une bougie allumée, sur l'appareil.
- Pour mettre au rebut les piles usées, respecter les lois gouvernementales ou les règlements officiels concernant l'environnement qui s'appliquent à votre pays ou région.
- Ne placer aucun objet à moins d'un mètre environ du panneau supérieur
- Veiller à ce qu'aucun objet ne soit à moins de 0,2 mètre des côtés de l'appareil.
- Ne renverser aucun liquide sur cet appareil. Si du liquide se répand dans l'appareil, consulter un ingénieur de service qualifié.

## Deutsch

### WARNHINWEISE

- Das Gerät nicht Regen oder Feuchtigkeit aussetzen.
- Die Abdeckung nicht vom Gerät abnehmen.
- Keine Gegenstände durch die Belüftungsschlitze stecken.
- Das Netzkabel nicht mit feuchten oder nassen Händen anfassen.
- Decken Sie die Lüftungsöffnungen nicht mit einem Tischtuch, einer Zeitung, einem Vorhang usw. ab.
- Es dürfen keine Gegenstände mit offener Flamme, wie etwa brennende Kerzen, auf dem Gerät aufgestellt werden.
- Beachten Sie bei der Entsorgung der verbrauchten Batterien alle geltenden lokalen und überregionalen Regelungen.
- Darauf achten, daß über dem Gerät ein Freiraum von mindestens 1 meter vorhanden ist.
- Auf allen Geräteseiten muß ein Zwischenraum von ungefähr 0,2 meter vorhanden sein.
- Niemals irgendwelche Flüssigkeiten auf dem Gerät verschütten. Falls dennoch Flüssigkeit in das Gerät eindringen sollte, suchen Sie bitte einen qualifizierten Kundendiensttechniker auf.

## Nederlands

### WAARSCHUWINGEN

- Stel het apparaat niet bloot aan regen of vocht.
- Verwijder de afdekplaat van het apparaat niet.
- Duw niets door de ventilatieopeningen in het apparaat.
- Raak het netsnoer niet met natte handen aan.
- Bedek de ventilatieopeningen niet met enige voorwerpen, zoals tafelkleden, kranten, gordijnen, enz.
- Plaats geen brandende voorwerpen, zoals kaarsen, op het apparaat.
- Volg bij het weggooiën van verbruikte batterijen de overheidswetgeving of milieuvoorschriften op die van kracht zijn in het land of de regio waarin u zich bevindt.
- Zorg dat er tenminste 1 meter vrije ruimte boven het toestel is.
- Zorg dat er 0,2 meter vrije ruimte rond het toestel is.
- Mors nooit vloeistoffen over dit apparaat. Laat het apparaat nakijken door een gekwalificeerd servicemonteur wanneer er vloeistof in het apparaat is gemorst

## Español

### ADVERTENCIAS

- No exponga el equipo a la lluvia ni a la humedad.
- No extraiga la tapa del equipo.
- No introduzca nada en el interior del equipo a través de los orificios de ventilación.
- No maneje el cable de alimentación con las manos mojadas.
- No cubra la ventilación con objetos como manteles, periódicos, cortinas, etc.
- No deben colocarse sobre el equipo elementos con fuego, por ejemplo velas encendidas.

- Cuando se eliminen baterías usadas, deben cumplirse las reglamentaciones oficiales o las normas de protección medioambiental aplicables en su país o en su zona.
- No ponga nada a menos de 1 metro por encima del panel superior.
- Deje un espacio de unos 0,2 metro alrededor de la unidad.
- No derrame nunca líquidos de ninguna clase en este aparato. Si se derrama algún líquido en el interior del aparato, consulte a un ingeniero de servicio cualificado.

## Italiano

### AVVERTENZE

- Non esporre l'apparecchio alla pioggia o all'umidità.
- Non rimuovere il coperchio dell'apparecchio.
- Non introdurre oggetti all'interno dell'apparecchio attraverso i fori di ventilazione.
- Non toccare il cavo di alimentazione con le mani bagnate.
- Non coprire le fessure di ventilazione con tovaglie, giornali, tende od oggetti analoghi.
- Non posare sull'apparecchio sorgenti di fiamme scoperte quali candele accese.
- Smettere le pile usate in conformità alle norme governative o disposizioni ambientali vigenti nel proprio paese o zona.
- Non posare nulla per circa un metro sopra il pannello superiore.
- Lasciare 0,2 metro liberi tutto intorno l'unità.
- Non spruzzare mai liquidi di qualsiasi tipo su quest'unità. In caso di penetrazione di liquido nell'unità, rivolgersi ad un tecnico qualificato.

## Português

### ADVERTÊNCIAS

- Não exponha o equipamento à chuva nem à humidade.
- Não retire a tampa do equipamento.
- Não atire nada para dentro do equipamento através dos orifícios de ventilação.
- Não manuseie o cabo de alimentação com as mãos molhadas.
- Não cobrir os orifícios de ventilação com objectos tais como toalhas de mesa, jornais, cortinas, etc.
- Não colocar chamas abertas tais como velas acesas, sobre o aparelho.
- Ao deitar foras as pilhas usadas, favor observar os regulamentos governamentais ou as regras com respeito ao meio ambiente que se aplicam no seu país ou área de residência.
- Deixar um espaço completamente livre de cerca de 1 metro acima do painel superior.
- Deixar um espaço de cerca de 0,2 metro ao redor do aparelho.
- Nunca derramar líquidos nesta unidade. Se derramar-se líquido e o mesmo penetrar na unidade, consultar o pessoal de atendimento técnico qualificado.

## Svenska

### VARNINGAR

- Utsätt inte utrustningen för regn eller fukt.
- Ta inte bort utrustningens hölje.
- För inte in föremål i utrustningen genom ventilationshålen.
- Hantera inte nåtsladden med våta händer.
- Täck inte för ventilationsöppningarna med några föremål som till exempel bordsdukar, dagstidningar, gardiner e.d.
- Inga föremål med öppen låga, som till exempel tända stearinljus, bör placeras på utrustningen.
- Följ de lagar och miljöskyddsråd som gäller i det land eller område där du bor när du gör dig av med batterier.
- Placera inte någonting närmare än 1 meter ovanför apparaten eller enheten.
- Se till att det finns omkring 0,2 meter fri plats runt omkring enheten.
- Spill aldrig vätskor på DVD-spelaren. Om du skulle spilla vätska inuti den, måste du vända dig till en kvalificerad servicetekniker.

## Dansk

### ADVARSLER

- Udsæt ikke udstyret for regn eller fugt.
- Fjern ikke dækslet fra udstyret.
- Stik ikke noget ind i udstyret gennem ventilationshullerne.
- Rør ikke ved netledningen med våde hænder.
- Tildæk ikke ventilationsåbningerne med ting som duge, aviser, gardiner og lignende.
- Kilder til åben ild, som for eksempel tændte stearinlys, må ikke anbringes på apparatet.
- Når du skiller dig af med gamle batterier, bedes du gøre dette i overensstemmelse med de love, regler og miljømæssige forskrifter, som er gældende i dit land eller område.
- Anbring ikke noget nærmere end 1 m over apparatets overside.
- Sørg for, at der er et frit område på omkring 0,2 m omkring apparatet.
- Spild aldrig væske på denne enhed. Hvis der spildes væske, som trænger ind i enheden, kontakt da kvalificeret servicereparator.

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

## WARNINGS FOR LASER RADIATION

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

DANGER : INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

### TABLE OF CONTENTS

■ <b>PRECAUTIONS</b> .....	2	Fast Forward / Reverse Search .....	16
WARNINGS FOR LASER RADIATION .....	4	Slow Forward / Slow Reverse .....	16
■ <b>INTRODUCTION</b> .....	5	Zoom .....	16
About Copyright .....	5	Title / Chapter Search .....	17
Notice for the progressive scan outputs .....	5	Track Search .....	17
Supplied Accessories .....	5	Time Search .....	17
Symbols Used in this Manual .....	5	Repeat .....	17
■ <b>ABOUT THE DISCS</b> .....	6	REPEAT TITLE / CHAPTER .....	17
Playable Discs .....	6	REPEAT TRACK / GROUP / ALL .....	17
Disc Types .....	6	A-B REPEAT .....	18
■ <b>FEATURES</b> .....	7	Programme Playback (CD) .....	18
■ <b>FUNCTIONAL OVERVIEW</b> .....	8	Random Playback (CD) .....	18
FRONT PANEL .....	8	MP3 / JPEG / WMA Playback .....	18
REMOTE CONTROL .....	8	Slide Show Mode .....	20
Tour of the remote control .....	9	On-Screen Information .....	20
Panel display .....	11	Programme Playback (MP3/JPEG/WMA) .....	20
Displays During Operation .....	11	Random Playback (MP3/JPEG/WMA) .....	20
Using the remote control .....	11	Audio Language .....	21
Loading the Batteries .....	11	Stereo Sound Mode .....	21
■ <b>CONNECTIONS</b> .....	12	Subtitle Language .....	21
Description - rear panel .....	12	Camera Angle .....	21
Connection to an audio system .....	13	Changing the On-Screen Display .....	22
Connection to a TV (for video) .....	14	Marker Setup Screen .....	22
■ <b>PLAYING A DISC</b> .....	15	Virtual Surround .....	22
Basic Playback .....	15	■ <b>DVD SETUP</b> .....	23
CANCELLING AND CALLING BACK		Language Setting .....	23
THE PBC FUNCTION .....	15	Display Setting .....	23
General Features .....	15	Audio Setting .....	24
FL OFF Mode .....	15	Parental Control .....	24
Still / Pause .....	15	PARENTAL LEVEL .....	24
Disc Menus .....	15	IF YOU FORGET THE PASSWORD .....	24
Title Menu .....	15	CONTROL LEVELS .....	24
CALLING UP A MENU SCREEN DURING		Returning all selections of SETUP(except for	
PLAYBACK .....	15	PARENTAL and VIDEO OUT) to their default settings. .	24
Step by Step Playback .....	16	■ <b>MAINTENANCE</b> .....	25
Resume .....	16	■ <b>TROUBLESHOOTING GUIDE</b> .....	26
Playing the disc recorded in VR mode		■ <b>SPECIFICATIONS</b> .....	27
(Video Recording format) .....	16	■ <b>PIN CONNECTION (A/V EURO CONNECTOR)</b> .....	27

## 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.

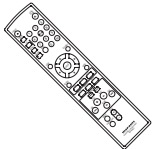
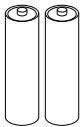
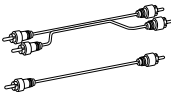


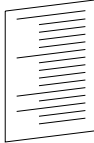
Apparatus Claims of U. S. Patent Nos, 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.

### 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 625 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 625p (576p) DVD player, please contact our customer service centre.

### Supplied Accessories

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

Remote control..... 1 	"AA" (R6P) batteries ..... 2 	Audio (Red and White) cable..... 1 Video (Yellow) cable..... 1 	Remote Control bus cable (Orange) ..... 1 	Operating Instruction.... 1 	Product Registration Card..... 1 
--	---	--	--	---	---

### Symbols Used in this Manual

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

- DVD-V**: Description refers to playback of DVD-Video discs.
- CD**: Description refers to playback of 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).

**Playable Discs**

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

Usable discs	Mark (logo)	Recorded signals	Disc Size
DVD-Video (NOTE 1)		Digital video (MPEG2)	12 cm
DVD-R DVD-RW (NOTE 2, 3)			8 cm
CD CD-R CD-RW (NOTE 4)		Digital audio MP3 WMA (NOTE 5) Digital picture (JPEG)	12 cm 8 cm
Video CD		Sound and Pictures	12 cm
			8 cm (Singles)
Picture CD		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 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 been 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 not be smooth, etc.).
- NOTE 4: Some of CD-R/CD-RW discs may be incompatible 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 PAL colour system. Also you can play discs recorded with the NTSC system via a PAL system TV set.

- 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.
- RW** . 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 2 or ALL  
DVD-ROM for personal computers  
CD-ROM for personal computers
- On the following disc, the sound MAY NOT be heard.  
Super Audio CD

**NOTE:**

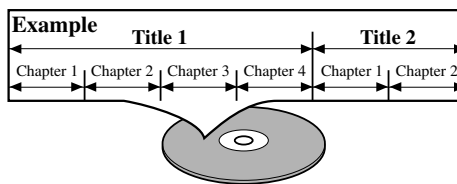
Only the sound recorded on the normal CD layer can be delivered.  
The sound recorded on the high density Super Audio CD layer cannot be delivered.

- Any other discs without compatibility indications.

**Disc Types**

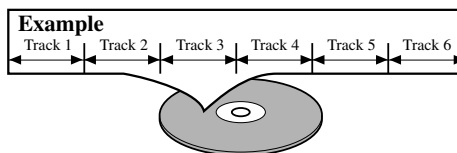
**[DVD-Video]**

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]**

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



**ABOUT THE PBC FUNCTION OF VIDEO CD**

This unit conforms to ver.1.1 and ver.2.0 of Video CD standard, with PBC function.  
*Ver.1.1 (without PBC function):* You can enjoy playback picture as well as music CD.  
*Ver.2.0 (with PBC function):* While using a Video CD with PBC function, "PBC" appears on the screen and the display.

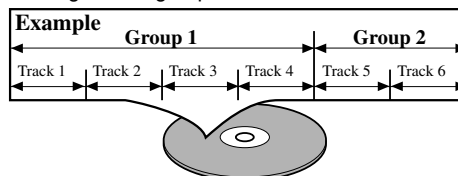
**What is PBC?** "PBC" stands for the Playback Control. You can play interactive software using menu screens. Refer to instructions in the Video CD.

**NOTE:**

When playing Video CDs with PBC function, some operations (e.g., track search and repeat tracks) cannot be performed unless the function is cancelled temporarily (Refer to page 15).

**[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 an 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.

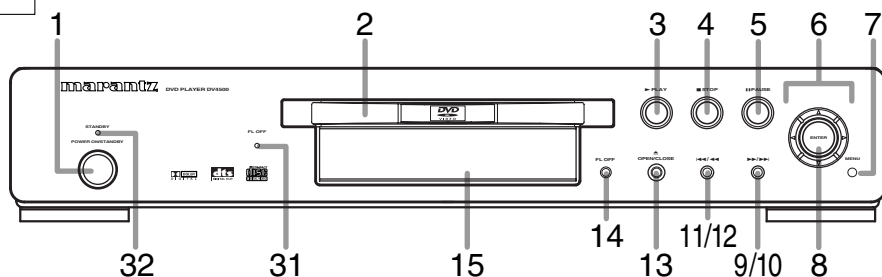
- **Progressive Scan system**  
Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional 625i (576i) television signals.
- **Dolby Digital Sound**  
By hooking this player up to a Multi - Channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital 5.1 channel surround sound as heard in the movie theatres.
- **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.
- **Random playback for audio CD, MP3, JPEG, and WMA**  
This player can shuffle the order of tracks to play them in random order.
- **Program playback for audio CD, MP3, JPEG, 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 Power Off**  
The power turns off automatically if there is no activity at the player or its remote for more than 35 minutes. (Refer to page 23.)
- **Subtitles in a desired language**  
You can select a desired language for the display subtitles, if that language is available on a disc.
- **Selecting a camera angle**  
You can select the desired camera angle, if a disc contains sequences recorded from different angles.
- **Choices for audio language and sound mode**  
You can select the desired audio language and sound mode, if different languages and modes are available on a disc.
- **Parental lock**  
You can set the control level to limit playback of discs which may not be suitable for children.
- **Automatic detection of discs**  
This player automatically detects if a loaded disc is DVD-Video, Video 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.
- **FL OFF Mode**  
You can turn off the panel display.
- **Search**  
Chapter search: Search for the chapter designated by user is possible.  
Title search: Search for the title designated by user is possible.  
Track search: Search for the track designated by user is possible.  
Time search: Search for the time designated by user is possible.
- **Repeat**  
Chapter: Repeated playback of the chapter of the disc being played is possible.  
Title: Repeated playback of the title of the disc being played is possible.  
Track: Repeated playback of the track of the disc being played is possible.  
All: Repeated playback is possible (exclude DVD-Video).  
A-B: The part between A and B designated by user is possible.  
Group: Repeated playback of the folder of the MP3/JPEG/WMA 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.
- **MPEG sound**  
This player can handle a disc that supports MPEG audio and the DVD player is connected to an MPEG decoder.
- **Displaying a JPEG picture**  
Kodak Picture CDs can be played. Still images stored in JPEG format on CD-R/RW can also be played.
- **Reproducing WMA data**  
You can enjoy WMA files which are recorded on CD-R/RW.

“Kodak Picture CD COMPATIBLE” is trademark of Eastman Kodak Company.

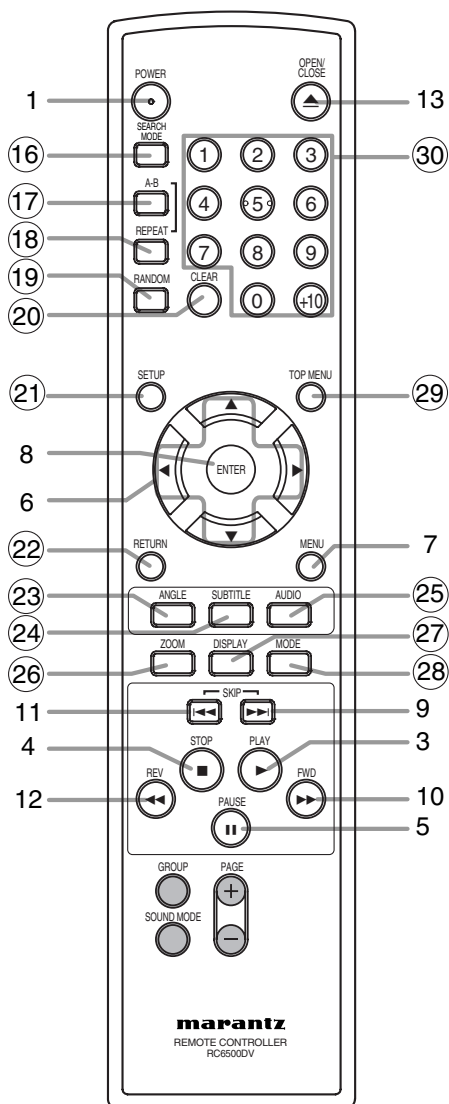
“WMA” (Windows Media Audio) is a new audio codec developed by Microsoft® in the United States of America.

## FUNCTIONAL OVERVIEW

### FRONT PANEL



### REMOTE CONTROL



1. **POWER (STANDBY) Button** [page 15]
2. **Disc loading tray**
3. **PLAY Button** [page 15]
4. **STOP Button** [page 15]
5. **PAUSE Button** [page 15]
6. **Cursor Buttons** [page 15]  
Use when making settings while watching the display on a TV screen.
7. **MENU Button** [page 15]
8. **ENTER Button** [page 15]
9. **▶▶(SKIP UP/FWD) Button** [page 17]  
Plays back from the beginning of the next chapter or track. Hold down to fast forward playback.
10. **▶▶(FWD SEARCH) Button** [page 16]
11. **◀◀(SKIP DOWN/REV) Button** [page 17]  
Plays back from the beginning of the current chapter or track. Hold down to fast reverse playback.
12. **◀◀(REV SEARCH) Button** [page 16]
13. **OPEN/CLOSE Button** [page 15]
14. **FL OFF Button** [page 15]
15. **Panel Display, Remote Sensor Window**
16. **SEARCH MODE Button** [page 17]
17. **A-B REPEAT Button** [page 18]
18. **REPEAT Button** [page 17]
19. **RANDOM Button** [page 18]
20. **CLEAR Button** [page 17]
21. **SETUP Button** [page 23]
22. **RETURN Button** [page 15]
23. **ANGLE Button** [page 21]  
Press to change the camera angle to see the sequence being played back from a different angle.
24. **SUBTITLE Button** [page 21]  
Press to select a desired subtitle language.
25. **AUDIO Button** [page 21]  
Press to select a desired audio language or sound mode.
26. **ZOOM Button** [page 16]
27. **DISPLAY Button** [page 20]
28. **MODE Button** [page 18]
29. **TOP MENU Button** [page 15]
30. **Numeric Buttons** [page 17]
31. **FL OFF Indicator**  
This indicator lights when the FL OFF button is ON.
32. **STANDBY Indicator**  
This indicator lights when the DVD player turns off.

#### NOTES:













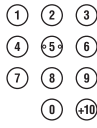

- The buttons in gray (●) do not function on this player.
- The buttons with circled numbers can only be operated with the remote control.













## FUNCTIONAL OVERVIEW

### Tour of the remote control

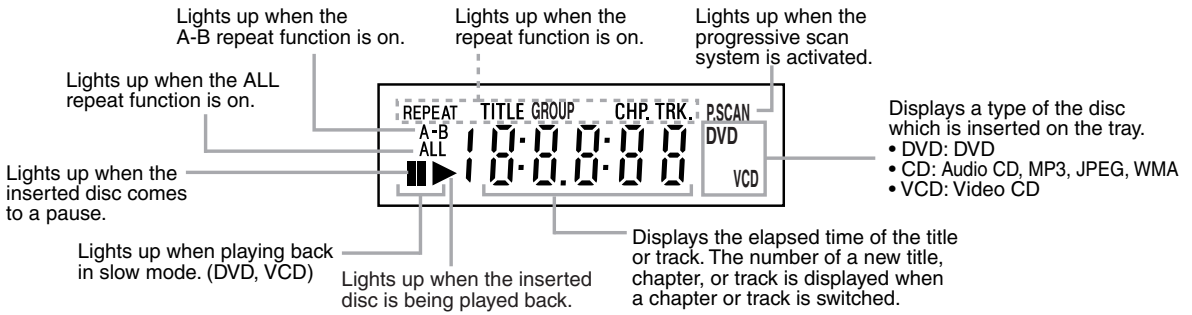
Buttons on remote control work in different ways for DVD, VCD, CD, MP3, JPEG, and WMA:  
Refer to the following table for correct use.

	DVD	VCD	CD, MP3, JPEG, WMA
<b>POWER Button</b> <small>POWER</small> 	<ul style="list-style-type: none"> <li>Press this to switch the power between on and standby.</li> </ul>	<ul style="list-style-type: none"> <li>Press this to switch the power between on and standby.</li> </ul>	<ul style="list-style-type: none"> <li>Press this to switch the power between on and standby.</li> </ul>
<b>A-B REPEAT Button</b> <small>A-B</small> 	<ul style="list-style-type: none"> <li>Marks a segment between A and B for repeated playback.</li> </ul>	<ul style="list-style-type: none"> <li>Marks a segment between A and B for repeated playback.</li> </ul>	<ul style="list-style-type: none"> <li>Marks a segment between A and B for repeated playback (CD).</li> </ul>
<b>REPEAT Button</b> <small>REPEAT</small> 	<ul style="list-style-type: none"> <li>Allows you to repeat playback of a Title or Chapter.</li> </ul>	<ul style="list-style-type: none"> <li>Allows you to repeat playback of a Track or Disc.</li> </ul>	<ul style="list-style-type: none"> <li>Allows you to repeat playback of a Track or Disc.</li> </ul>
<b>RANDOM Button</b> <small>RANDOM</small> 	—	—	<ul style="list-style-type: none"> <li>Allows you to play tracks in random order.</li> </ul>
<b>MODE Button</b> <small>MODE</small> 	<ul style="list-style-type: none"> <li>To activate the 3D sound (Virtual surround system).</li> </ul>	<ul style="list-style-type: none"> <li>To activate the 3D sound (Virtual surround system).</li> </ul>	<ul style="list-style-type: none"> <li>Allows you to programme a specific order or random playback.</li> <li>To activate the 3D sound (Virtual surround system) (CD, MP3, WMA).</li> </ul>
<b>ZOOM Button</b> <small>ZOOM</small> 	<ul style="list-style-type: none"> <li>To magnify part of the picture (x2/x4).</li> </ul>	<ul style="list-style-type: none"> <li>To magnify part of the picture (x2).</li> </ul>	<ul style="list-style-type: none"> <li>To magnify part of the picture (x2) (JPEG).</li> </ul>
<b>ANGLE Button</b> <small>ANGLE</small> 	<ul style="list-style-type: none"> <li>Accesses various camera angles on the disc.</li> </ul>	—	—
<b>SUBTITLE Button</b> <small>SUBTITLE</small> 	<ul style="list-style-type: none"> <li>Accesses various subtitles on the disc.</li> </ul>	—	—
<b>AUDIO Button</b> <small>AUDIO</small> 	<ul style="list-style-type: none"> <li>Accesses various audio functions on the disc.</li> </ul>	<ul style="list-style-type: none"> <li>To select STEREO, L-CH or R-CH.</li> </ul>	<ul style="list-style-type: none"> <li>To select STEREO, L-CH or R-CH.</li> </ul>
<b>DISPLAY Button</b> <small>DISPLAY</small> 	<ul style="list-style-type: none"> <li>Displays the current disc mode.</li> </ul>	<ul style="list-style-type: none"> <li>Displays the current disc mode.</li> </ul>	<ul style="list-style-type: none"> <li>Displays the current disc mode.</li> </ul>
<b>SEARCH MODE Button</b> <small>SEARCH MODE</small> 	<ul style="list-style-type: none"> <li>To search for a chapter, title, time or marker.</li> <li>To rapidly return to a location on disc.</li> </ul>	<ul style="list-style-type: none"> <li>To search for a track, time or marker.</li> <li>To rapidly return to a location on the disc.</li> </ul>	<ul style="list-style-type: none"> <li>To search for a track.</li> <li>To search for time or a marker (CD).</li> <li>To rapidly return to a location on the disc.</li> </ul>
<b>OPEN/CLOSE Button</b> <small>OPEN/CLOSE</small> 	<ul style="list-style-type: none"> <li>To open or close the disc tray.</li> </ul>	<ul style="list-style-type: none"> <li>To open or close the disc tray.</li> </ul>	<ul style="list-style-type: none"> <li>To open or close the disc tray.</li> </ul>
<b>Numeric Buttons</b> 	<ul style="list-style-type: none"> <li>To select chapter or title directly.</li> </ul>	<ul style="list-style-type: none"> <li>To select tracks directly.</li> </ul>	<ul style="list-style-type: none"> <li>To select tracks directly.</li> </ul>
<b>CLEAR Button</b> <small>CLEAR</small> 	<ul style="list-style-type: none"> <li>Clear the markers.</li> <li>Clear the numbers entered incorrectly.</li> <li>To cancel the A point for A-B Repeat.</li> </ul>	<ul style="list-style-type: none"> <li>Clear the markers.</li> <li>Clear the numbers entered incorrectly.</li> <li>To cancel the A point for A-B Repeat.</li> </ul>	<ul style="list-style-type: none"> <li>Clear the markers.</li> <li>Removes a status number in program input.</li> <li>Clear the numbers entered incorrectly.</li> <li>To cancel the A point for A-B Repeat.</li> </ul>

**Tour of the remote control**

	<b>DVD</b>	<b>VCD</b>	<b>CD, MP3, JPEG, WMA</b>
<b>MENU Button</b> 	<ul style="list-style-type: none"> <li>To call up the Menu on a disc.</li> </ul>	—	<ul style="list-style-type: none"> <li>To call up the FILE LIST (MP3, JPEG, WMA).</li> </ul>
<b>TOP MENU Button</b> 	<ul style="list-style-type: none"> <li>To call up the Top Menu on a disc.</li> </ul>	—	<ul style="list-style-type: none"> <li>To return to the first item in the highest hierarchy of the FILE LIST.</li> </ul>
<b>ENTER, Cursor Buttons</b> 	<ul style="list-style-type: none"> <li>Moves the cursor and determines its position.</li> </ul>	<ul style="list-style-type: none"> <li>Moves the cursor and determines its position.</li> </ul>	<ul style="list-style-type: none"> <li>Moves the cursor and determines its position.</li> </ul>
<b>RETURN Button</b> 	<ul style="list-style-type: none"> <li>To return to the previous menu.</li> </ul>	<ul style="list-style-type: none"> <li>To return to the previous menu.</li> </ul>	—
<b>SETUP Button</b> 	<ul style="list-style-type: none"> <li>To call up the DVD player's Setup menu.</li> </ul>	<ul style="list-style-type: none"> <li>To call up the DVD player's Setup menu.</li> </ul>	<ul style="list-style-type: none"> <li>To call up the DVD player's Setup menu.</li> </ul>
<b>SKIP Buttons</b> 	<ul style="list-style-type: none"> <li>To skip Chapters.</li> </ul>	<ul style="list-style-type: none"> <li>To skip Tracks.</li> </ul>	<ul style="list-style-type: none"> <li>To skip Tracks.</li> </ul>
<b>REV / FWD Buttons</b> 	<ul style="list-style-type: none"> <li>Allows you to search forward/backward through a disc.</li> <li>To begin slow forward/slow reverse.</li> </ul>	<ul style="list-style-type: none"> <li>Allows you to search forward/backward through a disc.</li> <li>To begin slow forward/slow reverse.</li> </ul>	<ul style="list-style-type: none"> <li>Allows you to search forward/backward through a disc (CD, MP3, WMA).</li> </ul>
<b>STOP Button</b> 	<ul style="list-style-type: none"> <li>To stop playback.</li> </ul>	<ul style="list-style-type: none"> <li>To stop playback.</li> </ul>	<ul style="list-style-type: none"> <li>To stop playback.</li> </ul>
<b>PLAY Button</b> 	<ul style="list-style-type: none"> <li>To begin disc play.</li> </ul>	<ul style="list-style-type: none"> <li>To begin disc play.</li> </ul>	<ul style="list-style-type: none"> <li>To begin disc play.</li> </ul>
<b>PAUSE Button</b> 	<ul style="list-style-type: none"> <li>To pause disc play.</li> <li>Advances playback one frame at a time.</li> </ul>	<ul style="list-style-type: none"> <li>To pause disc play.</li> <li>Advances playback one frame at a time.</li> </ul>	<ul style="list-style-type: none"> <li>To pause disc play.</li> </ul>

Panel display



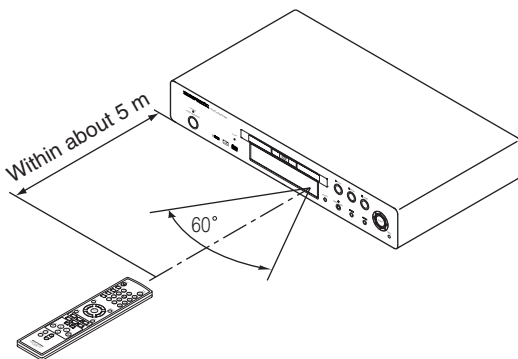
Displays During Operation

	Power on
	No disc inserted or cannot read
	Tray open
	Tray closed
	Loading the Disc
	Lights up when the playback control is activated (VCD)
	Power off

Using the remote control

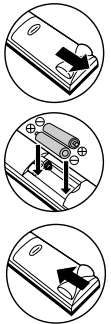
Keep in mind the following when using the remote control:

- 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

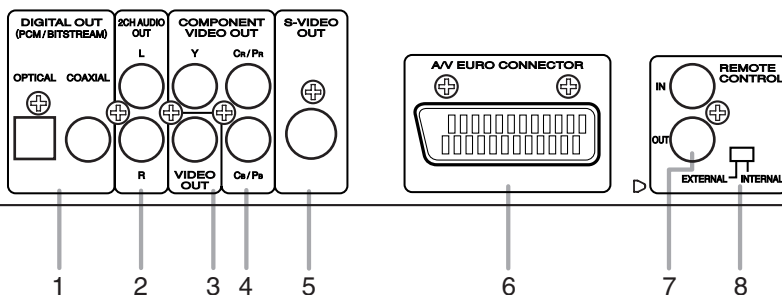
1. Open the battery compartment cover.
2. Insert two "AA" (R6P) batteries, with each one oriented correctly.
3. Close the cover.



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 than 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 JACKS

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 jack to Video input on your A/V-compatible TV or wide screen TV, Stereo system.

### 4. COMPONENT VIDEO OUT JACKS

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

### 5. S-VIDEO OUT JACK

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

### 6. A/V EURO CONNECTOR

Connect to the 21-pin scart jack of a TV.

### 7. REMOTE CONTROL IN/OUT JACKS

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

### 8. 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".

### NOTES:

- Be sure not to use both the A/V EURO CONNECTOR jack and component Video jacks for video output at the same time.
- When changing the VIDEO OUT setting (SCART or Component(I)/Component(P)), connect to a VIDEO jack or an S-VIDEO jack on the TV. If the setting is changed, for example, to Component(I)/Component(P) while the Euro A/V(SCART) jack is connected to the TV, a distorted video signal may be output.
- When connecting to component with a remote sensor, be sure to connect the component to the "REMOTE CONTROL IN" jack of this DVD player to the "REMOTE CONTROL OUT" jack of the component with the remote sensor.
- When connecting to component which is not equipped with a remote sensor, be sure to connect the component to the "REMOTE CONTROL OUT" jack of this DVD player.

### Selecting Progressive Scan (625p <576p> or Interlaced 625i <576i>) Playback

- If your TV is compatible with progressive scanning (625p <576p>), connect the TV to the Component Video jacks of the DVD player and set "VIDEO OUT" to "Component (P)" in the display setting. Next, set your TV to the progressive scan mode. Refer to page 23 for instructions on changing the display setting.
- If your TV is not compatible with progressive scan, set "VIDEO OUT" to "Component (I)".
- Use a commercially available adaptor if the video input jacks of your TVs or monitors are the BNC type.

### What is Progressive Scanning?

- Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional (625i/576i) television signals.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

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

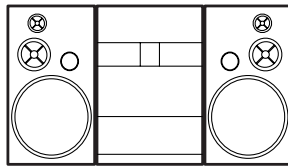
If using this DVD player to playback a DVD in a Dolby Digital 5.1 channel surround or DTS surround format, the DVD player outputs a Dolby Digital or DTS data stream from its OPTICAL or COAXIAL DIGITAL AUDIO OUT jacks. By hooking the player up to a Dolby Digital or DTS decoder, you can enjoy a more convincing, 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.

**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.

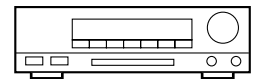
**Connection to an audio system**

**Method 1**



Stereo system

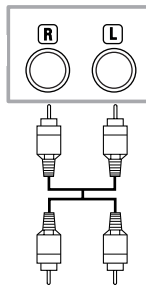
**Method 2**



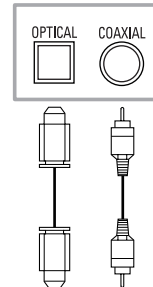
Dolby Digital decoder,  
DTS decoder  
or  
MPEG decoder

**AUDIO**

Audio Input Jacks



Digital Audio Input Jacks

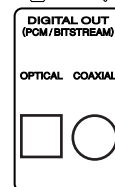


**DVD**

Analog Audio Out



Digital Audio Out



- **Method 1** DVD Player + Stereo system
- **Method 2** DVD Player + Dolby Digital decoder, DTS decoder or MPEG decoder

**NOTES:**

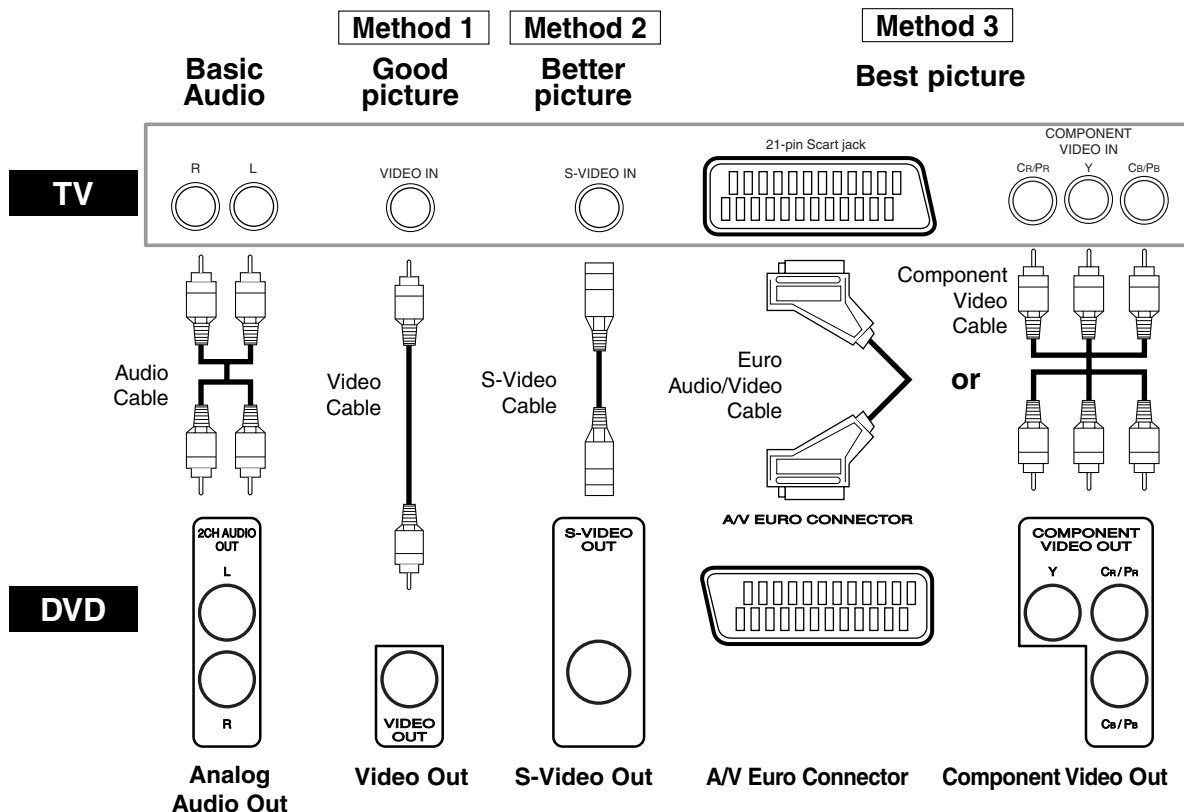
- When using Dolby Digital, DTS, or MPEG decoder, set "DOLBY DIGITAL", "DTS" or "MPEG" to "ON" accordingly for audio output in the setup mode (Refer to page 24). Set it to "OFF" for the decoder that is not used currently. Playing a DVD using incorrect settings may generate noise distortion, and may also 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" and "DTS" to "OFF" 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 24).

**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.

## CONNECTIONS

### 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 AV1 Jack or 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:

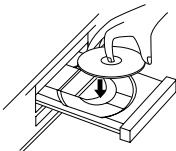
- The picture quality from DVD discs will not be as good if the DVD player is connected to the TV's antenna terminal through an RF Modulator.

## Basic Playback

DVD-V DVD-RW VCD 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.



- 1 Press the **POWER** button.
  - "P-ON" will appear briefly on the display panel.
- 2 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, and playback will then 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

- 1 Insert a Video CD.
- 2 Press the **STOP** button.
- 3 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.
- 4 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-V

DVD may contain menus to navigate the disc and access special features. Press the appropriate numerical key or use the **Cursor** buttons (▼/▲/▶/◀) 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.

## FL OFF Mode

- 1 Press the **FL OFF** button on the front panel to turn off the panel display.
  - The FL OFF indicator will light up.

## NOTES:

- In SETUP menu, the FL OFF mode is not available.
- The FL OFF 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 **FL OFF** button (on the front panel)
- To call back the setting in SETUP menu, turn off (STANDBY) the DVD player first and turn it on again.

## Still / Pause

DVD-V DVD-RW VCD CD MP3  
JPEG WMA

- 1 During playback, press the **PAUSE** button.

- Playback will pause and sound will be muted.




- 2 To continue playback, press the **PLAY** button.

## NOTE:

- On DVDs, set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 23.)


## Disc Menus

DVD-V

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

## Title Menu

DVD-V

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

VCD

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

## CALLING UP A MENU SCREEN DURING PLAYBACK

DVD-V

- 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.

## PLAYING A DISC

### Step by Step Playback

DVD-V DVD-RW VCD

- 1 During playback, press the **PAUSE** button.

- Playback will pause and sound will be muted.



- 2 The disc advances by one frame each time the **PAUSE** button is pressed.
- 3 To exit step by step playback, press the **PLAY** button.

#### NOTE:

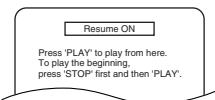
- On DVDs, set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 23.)

### Resume

DVD-V DVD-RW VCD CD MP3  
JPEG WMA

- 1 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

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.

- 1 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.

- 3 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.

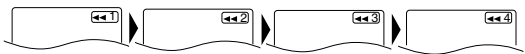
### Fast Forward / Reverse Search

DVD-V DVD-RW VCD CD MP3  
WMA

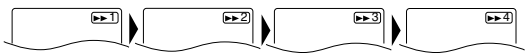
- 1 During playback, press the **▶▶** or **◀◀** button repeatedly to select the required forward or reverse speed.

- 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).

#### ◀◀ Button



#### ▶▶ Button



- 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, 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-V DVD-RW VCD

- 1 During playback, press the **PAUSE** button.

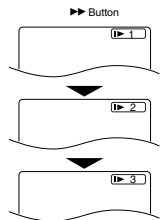
- 2 Press the **▶▶** or **◀◀** button.

- Slow motion playback will begin and sound will be muted.

- 3 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:

- On DVDs, set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 23.)
- Only Slow Forward is available when playing Video CD.

### Zoom

DVD-V DVD-RW VCD JPEG

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.

- 1 Press the **ZOOM** button during playback.

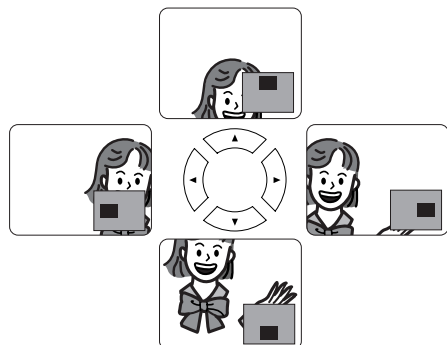
- Playback will continue.

- 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.

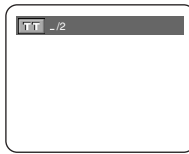


Title / Chapter Search

DVD-V DVD-RW

By using the SEARCH MODE button

- Press the **SEARCH MODE** button repeatedly until the Chapter search, or the Title search appears during playback.



- 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.

Track Search

CD VCD MP3 JPEG WMA

There are three ways to begin playback on an Audio CD, Video CD, MP3, JPEG or WMA disc at 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 (eg. 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.
- 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.



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** 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 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.

Time Search

DVD-V DVD-RW CD VCD

- Press the **SEARCH MODE** button until the Time Search screen appears on the TV screen.
- 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, "0:0:\_" appears in the Time Search screen if the total time of the disc is less than 10 minutes.

- Press the **CLEAR** button to erase the incorrect input.

Repeat

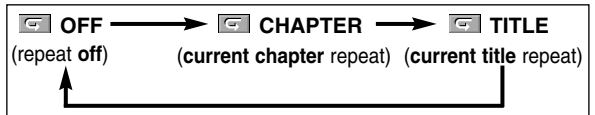
- The **REPEAT** button is available only during playback.

REPEAT TITLE / CHAPTER

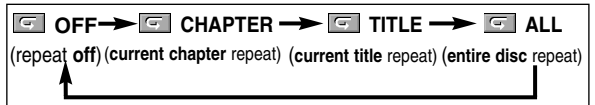
DVD-V

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

CD VCD

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

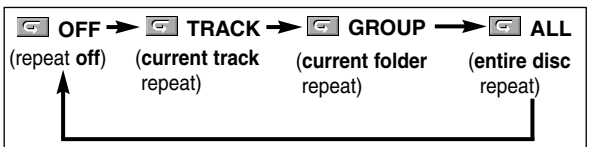
- The repeat mode changes as described below every time you press the button.



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.

MP3 JPEG WMA



NOTE:

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

## PLAYING A DISC

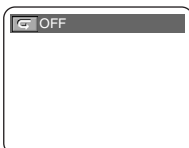
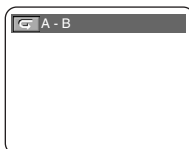
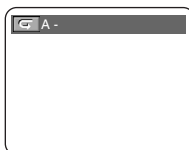
### A-B REPEAT

DVD-V DVD-RW CD VCD

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

#### NOTES:

- 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.

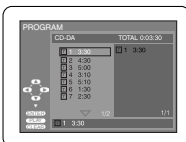


### Programme Playback

CD

You may determine the order in which tracks will play.

- In stop mode, press the **MODE** button.
  - The PROGRAM screen will appear.
- Press the **Cursor** buttons ( or ) to select a track, then press the **ENTER** button.
  - Press the **CLEAR** button to erase the most recently entered program.
- Press the **PLAY** button to play the programmed tracks.



#### NOTES:

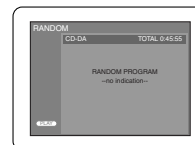
- While the programme is being played back, the **STOP** button works as follows.
- Press the **STOP** button once and then the **PLAY** button again, playback will restart from the point where the **STOP** button was pressed. (Programme continued)
- Press the **STOP** button twice and then the **PLAY** button again, playback will restart from the first track in the usual way. Your programmes are still stored until either the disc tray is open or power is turned off.
- Up to 99 programmes can be entered.
- To erase all tracks in the programme at once, select ALL CLEAR at the bottom of the list at step 2.
- If you wish to repeat the current track in the programme, press the **REPEAT** button repeatedly until **TRACK** appears during playback. If you wish to repeat the entire programme press the **REPEAT** button repeatedly until **ALL** appears during playback.
- Refer to page 20 for programme playback of MP3, WMA, and JPEG.
- If eight or more tracks have been set in a programme, the user can switch the right part of the screen with the **SKIP** button or .

### Random Playback

CD

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

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



- Press the **PLAY** button to start random playback.

#### NOTES:

- If you wish to repeat the current track in the random selection, press the **REPEAT** button repeatedly until **TRACK** appears during playback. If you wish to repeat the entire random selection press the **REPEAT** button repeatedly until **ALL** appears during playback.
- Refer to page 20 for random playback of MP3, WMA, and JPEG.

### 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 ( or ) 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. Starting from the one that has been chosen and the subsequent tracks will be played.
  - Press the **TOP MENU** button to return to the first item.
- Press the **STOP** button to stop playback.

#### NOTES:

- Folders are known as Groups; files are known as Tracks.
- A symbol of is shown on the top of the group name.
- A symbol of is shown on the top of MP3 files.
- A symbol of is shown on the top of JPEG files.
- A symbol of is shown on the top of WMA files.
- Maximum of 255 folders can be recognised.
- If the track extends beyond the scope of screen, a down arrow appears, indicating that the user can view another part on the previous page. The current page number and the number of total pages are shown on the left of the down arrow .
- Maximum of 512 files can be recognised.
- 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

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

Applicable MP3 file		Remarks
Sampling frequency	44.1kHz 48kHz	• It is prohibited to record MP3 sound on a digital device when connection is made digitally.
Type	MPEG1 audio layer 3	• MP3 files recorded at fixed bit rate of 112 kbps or higher are recommended.

Applicable JPEG 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 WMA 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.
Type	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.

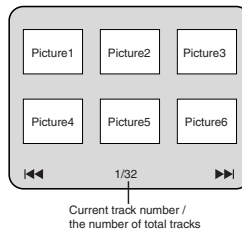
### Information on MP3, JPEG and WMA discs

- This DVD player can play back images and sounds from data recorded in MP3 and JPEG 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. The Picture CD is a service to convert photographs taken by a conventional film camera into digital data and write the data on a CD. The user can enjoy picture images on the television set by playing back the Picture CDs. For details of Kodak Picture CD, contact a shop that deals with developing service of Kodak Inc.

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



- If all menu items cannot be displayed in the screen scope, “▶▶” appears at the right bottom of the screen, indicating that the user can view remaining items on the next page. “◀◀” appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the centre bottom of the screen.
- If “▶▶” is shown at the right bottom, use the **SKIP ▶▶** button to view the next page. If “◀◀” is shown at the left bottom, use the **SKIP ◀◀** button to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.

- 2 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 recognised.
- Maximum of 255 folders can be recognised.
- Maximum of 512 files can be recognised.
- It can also be displayed tag information of WMA 64 characters at maximum.
- A file with an extension of Joliet as Unicode format in up to 64 characters can be recognised.

**Slide Show Mode**

**JPEG**

You can switch to the slide show mode during playback.


- 1** 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 each file during playback.



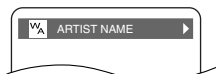




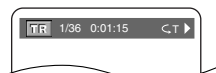
- 1** Press the **DISPLAY** button.
  - The name of the file currently in play will be displayed.

<Example: MP3>
- 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.
  -  will be displayed when the repeat play has been selected.
  -  T - indicates Track repeat
  -  G - indicates Group (folder) repeat
  -  A - indicates Disc 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 each file during playback.

- 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.
- 4** 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.
  -  T - indicates Track repeat
  -  G - indicates Group (folder) repeat
  -  A - indicates Disc repeat

- 5** 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.

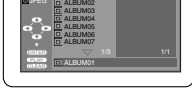


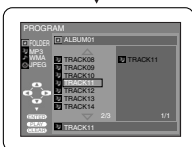




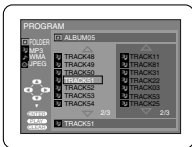
**NOTE:**

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



**Programme Playback**

**MP3** **JPEG** **WMA**

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

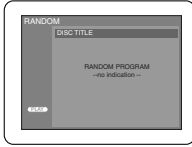
- 1** In stop mode, press the **MODE** button.
  - The PROGRAM screen will appear.
- 2** Press the **Cursor** buttons ( or ) to select a group, then press the **ENTER** button.
  - A track selection screen appears.
- 3** Press the **Cursor** buttons ( or ) to select a track, then press the **ENTER** button to save it in a programme.
  - Press the **CLEAR** button to erase the incorrect input.
  - The programmed track is displayed in the right-hand screen.
  - If the entire programme 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.
- 4** 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 tracks in the programme 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 programme 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. (programme continued.)
- Press the **STOP** button twice and then the **PLAY** button again, playback will restart from the first track in the usual way. Your programmes are still stored until either the disc tray is open or power is turned off.
- Up to 99 tracks can be set in a programme.
- If a disc is inserted that contains mixed MP3, JPEG and WMA files, programme setting allows 99 tracks for combination of MP3, JPEG and WMA files.
- If eight or more tracks have been set in a programme, the user can switch the right part of the screen with the **SKIP** button  or .

**Random Playback**

**MP3** **JPEG** **WMA**

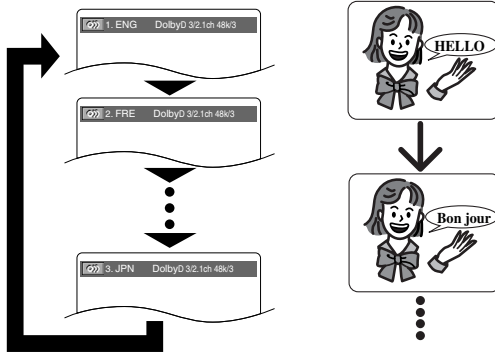
- 1** In stop mode, press the **RANDOM** button.
  - The RANDOM screen will appear.
- 2** Press the **PLAY** button to play the tracks in random order.
  - Random play starts.
  - For a disc containing mixed MP3, JPEG and WMA files, random play of those files will be performed.

**Audio Language**

**DVD-V DVD-RW**

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

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



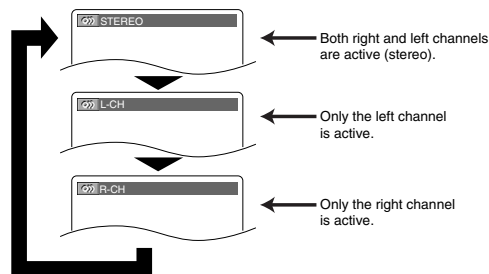
**NOTES:**

- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Some discs allow 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 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 25.)

**Stereo Sound Mode**

**CD VCD**

- 1 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 will not be changed when playing **DTS -CD**.

**Subtitle Language**

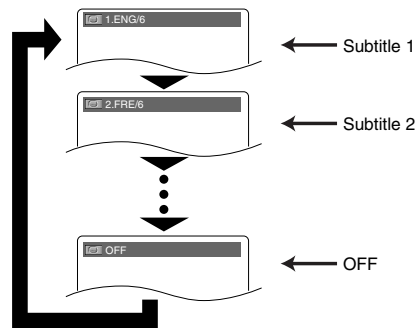
**DVD-V**

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

- 1 Press the **SUBTITLE** button during playback.
- 2 Press the **SUBTITLE** button repeatedly to select

your desired subtitle language.

- The selected language will be displayed on the display bar at the top of the screen.
- Press the **Cursor** buttons ( ◀ or ▶ ) to turn ON or OFF subtitles during playback.



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

**NOTES:**

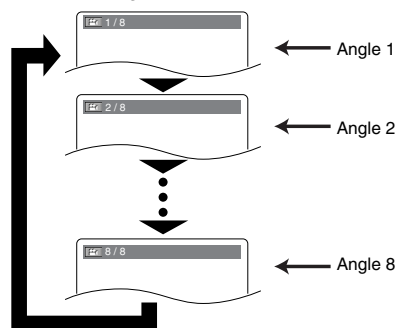
- Some discs allow subtitle language setting on the disc menu. (Operation varies between discs. Refer to the manual accompanying the disc.)
- Pressing the **SUBTITLE** button may not work on some DVDs with multiple subtitle languages (e.g. DVDs which allow subtitle language setting on the disc menu).
- 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 25.)
- If the disc with no subtitle language, 'NOT AVAILABLE' will be displayed.

**Camera Angle**

**DVD-V**

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the mark ( 📷 ) appears on the screen.

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



**NOTE:**

- If the "ANGLE ICON" setting is "OFF" in the Display menu, the mark ( 📷 ) will not 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.

- 1** 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.
- 3** 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.
- 4** Press the **DISPLAY** button to remove the display.



**CD** **VCD**

- 1** 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.
- 3** Press the **DISPLAY** button to remove the display.

### Hints for the On-Screen Display

- **↶C** - indicates Chapter repeat
- **↶T** - indicates Title or Track repeat
- **↶A** - indicates Disc repeat
- **A↶B** - indicates A-B repeat

## Marker Setup Screen

**DVD-V** **DVD-RW** **VCD** **CD**

Use markers to memorise your favourite places on a disc.

- 1** Press the **SEARCH MODE** button repeatedly until the display screen and Markers appear during playback.
- 2** 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.
- 3** When reaches the desired point, 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 **◀** or **▶** 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.
- 5** Press the **SEARCH MODE** or **RETURN** button to exit.

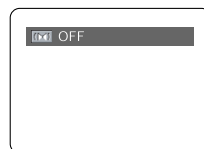
## Virtual Surround

**DVD-V** **DVD-RW** **VCD** **CD** **MP3**

**WMA**

You can enjoy surround-sound effect over two speakers.

- 1** Press the **MODE** button during playback.



- 2** Press the **ENTER** button to set it 1(Natural effect), 2(Emphasised effect) or OFF.
- 3** Press the **RETURN** button to exit.

### NOTES:

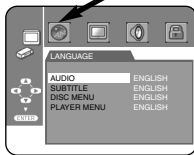
- Select Virtual Surround OFF or adjust the volume down if the sound is distorted.
- Virtual Surround will not be effective if the sound mode is set to something other than “STEREO”. (for Audio CDs or Video CDs play only)
- The setting will be saved even if the player is turned off.

In Setup menu, QUICK mode, CUSTOM mode and INITIALIZE mode (Refer pages 23 and 24) 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.

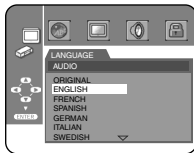
- 1 Press the **SETUP** button in STOP mode.
- 2 Press the **Cursor** buttons ( ◀ or ▶ ) to select **CUSTOM**, then press the **ENTER** button.
  - CUSTOM mode will appear.
- 3 Press the **Cursor** buttons ( ◀ or ▶ ) to select **LANGUAGE**, then press the **ENTER** button to confirm.



- 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.
- 5 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 25).
    - Only the languages supported by the disc can be selected.

- 6 Press the **SETUP** button to exit.

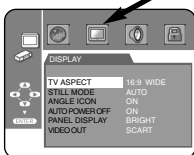
**NOTE:**

- Language Setting for AUDIO and SUBTITLE is not available with some discs. Then use the **AUDIO** and **SUBTITLE** buttons. Details are on pages 21.

**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.

- 1 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.

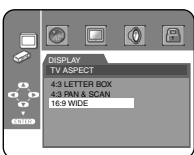


- 3 Press the **Cursor** buttons ( ◀ or ▶ ) to select **DISPLAY**, then press the **ENTER** button to confirm.

- 4 Press the **Cursor** buttons ( ▲ or ▼ ) to select the below items, then press the **ENTER** button.

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

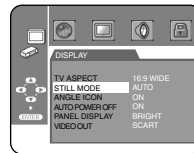
- Press the **Cursor** buttons ( ▲ or ▼ ) for an item selection, then press the **ENTER** button.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD player.



- 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.

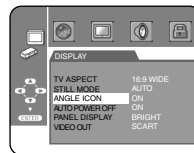
**STILL MODE (Default : AUTO)**

- 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.



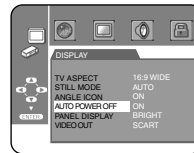
**ANGLE ICON (Default : ON)**

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



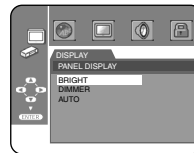
**AUTO POWER OFF (Default : ON)**

- Press the **ENTER** button repeatedly to turn Auto Power ON or OFF.
- It will turn the DVD player to off automatically after 35 minutes of no use.



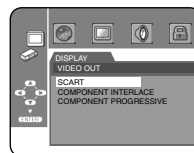
**PANEL DISPLAY (Default : BRIGHT)**

- 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.



**VIDEO OUT (Default : SCART)**

- Press the **Cursor** buttons ( ▲ or ▼ ) for an item selection (SCART, COMPONENT INTERLACE or COMPONENT PROGRESSIVE), then press the **ENTER** button.
- This setting will be effective when you exit the setup screen by pressing the **SETUP** button.
- The default setting is SCART.
- When VIDEO OUT is COMPONENT PROGRESSIVE, "P.SCAN" appears on the DVD player's panel display after you exited the setup screen.
- Refer to page 12 for more details.



- 5 Press the **SETUP** button to exit.

**NOTES:**

- Be sure to press the **SETUP** button, or the setting will not work.
- When changing the VIDEO OUT setting (SCART, COMPONENT INTERLACE or COMPONENT PROGRESSIVE), connect to a VIDEO jack or an S-VIDEO jack on the TV. If the setting is changed, for example, to SCART while the Component Video jacks is used to connect to the TV, a distorted video signal may be output.

## Audio Setting

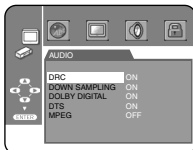
Choose the appropriate Audio settings for your equipment as it only affect during the playback of DVD discs of the DVD player.

- 1** 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.
- 3** Press the **Cursor** buttons ( ◀ or ▶ ) to select **AUDIO**, then the **ENTER** button to confirm.
- 4** Press the **Cursor** buttons ( ▲ or ▼ ) button to select the below items, then press the **ENTER** button.



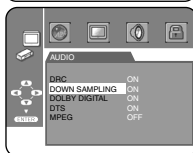
### DRC (Dynamic Range Control) (Default : ON)

- To compress the range of sound volume.
- 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.



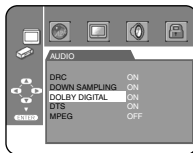
*When playing disc with copyright protection*

- 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.

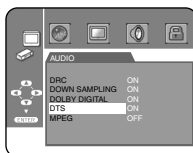
- ON:** Output by Dolby Digital.
- OFF:** Convert the Dolby Digital to PCM.



### DTS (Default : ON) QUICK

**ON:** Output by DTS sound Set to ON when the unit is connected to DTS decoder.

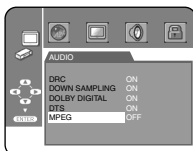
- OFF:** No DTS sound will be output.



### MPEG (Default: OFF) QUICK

**ON:** Output MPEG sound. Set to ON when the unit is connected to an MPEG decoder.

- OFF:** Convert the MPEG sound to PCM.



- 5** 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.

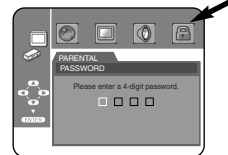
### PARENTAL LEVEL

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.

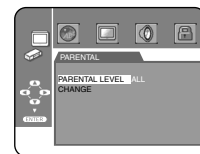
- 1** Press the **SETUP** button in STOP mode.
- 2** Press the **Cursor** buttons ( ◀ or ▶ ) to select **CUSTOM**, then press the **ENTER** button.
- 3** Press the **Cursor** buttons ( ◀ or ▶ ) to select **PARENTAL**, then press the **ENTER** button.

- 4** Press the **Numeric** buttons to enter your 4-digit password.

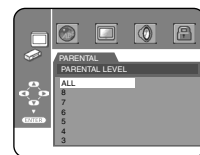
- When doing this for the first time, enter any 4-digit number by pressing the number buttons (except for 4737), then press the **ENTER** button. That number will be used as the password from the second time onward. Record your password in case you forget it.
- If you forget the password, press **4, 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.



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



### NOTE:

- This function may not work on some DVDs. Be sure if the RATINGS operates in the way you have set.

### To Change the Password:

- 1) Follow the steps **1** to **4** above.
- 2) Press the **Cursor** buttons ( ▲ or ▼ ) to select "CHANGE", then press the **ENTER** button.
- 3) Enter a new 4-digit password, then press the **ENTER** button.
- 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 ALL.
- 2** Repeat steps **5** to **7** to re-establish the parental lock.

### CONTROL LEVELS

- **ALL**  
Parental lock is cancelled.
- **Level 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 and VIDEO OUT) to their default settings

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

- 1** Press the **SETUP** button in STOP mode.
- 2** Press the **Cursor** buttons ( ◀ or ▶ ) to select **INITIALIZE**, 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:

- When you cancel to INITIALIZE at step **3**, select **NO**.



## DVD SETUP

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

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 21. 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 "TROUBLESHOOTING 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 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.

<b>Problem</b>	<b>Solution</b>
<b>No power</b>	<ul style="list-style-type: none"> <li>-Check if the AC power cord is properly connected.</li> <li>-Unplug the outlet once, and wait for 5-10seconds and then plug it in again</li> </ul>
<b>No sound or picture</b>	<ul style="list-style-type: none"> <li>-Check if the TV is switched on.</li> <li>-Check the video connection</li> <li>-Check the VIDEO/AUDIO cable connections to the TV (Refer to on page 14 for Connecting to a TV (for video))</li> <li>-Check if the INTERLACE/PROGRESSIVE mode is set correctly according to your TV. See page 23.</li> </ul>
<b>Distorted picture</b>	<ul style="list-style-type: none"> <li>-Sometimes a small amount of picture distortion may appear. This is not a malfunction.</li> <li>-Connect the player directly to the TV.</li> </ul>
<b>Completely distorted picture or black/white picture with DVD</b>	<ul style="list-style-type: none"> <li>-Connect DVD player directly to the TV.</li> <li>-Make sure the disc is compatible with the DVD player.</li> </ul>
<b>No sound or distorted sound</b>	<ul style="list-style-type: none"> <li>-Adjust the volume.</li> <li>-Check that the speakers are connected correctly.</li> </ul>
<b>No audio at digital output</b>	<ul style="list-style-type: none"> <li>-Check the digital connections.</li> <li>-Check if the audio format of the selected audio language matches your receiver capabilities.</li> </ul>
<b>No DTS audio output</b>	<ul style="list-style-type: none"> <li>-Use a DIGITAL AUDIO OUT jack when outputting the DTS audio.</li> </ul>
<b>Picture freezes momentarily during playback</b>	<ul style="list-style-type: none"> <li>-Check the disc for fingerprints/scratches and clean with a soft cloth wiping from center to edge.</li> <li>-Clean the disc</li> </ul>
<b>Disc can't be played</b>	<ul style="list-style-type: none"> <li>-Clean the disc</li> <li>-Ensure the disc label is facing up.</li> <li>-Check if the disc is defective by trying another disc.</li> <li>-Cancel the parental lock or change the control level.</li> <li>-Insert a correct disc that plays on this player.</li> </ul>
<b>No return to start-up screen when disc is removed</b>	<ul style="list-style-type: none"> <li>-Reset the player by switching the player off, then on again.</li> </ul>
<b>The player does not respond to the remote control</b>	<ul style="list-style-type: none"> <li>-Aim the remote control directly at the sensor on the front of the player.</li> <li>-Reduce the distance to the player.</li> <li>-Replace the batteries in the remote control.</li> <li>-Re-insert the batteries with their polarities (+/- signs) as indicated.</li> </ul>
<b>Buttons do not work or player stops responding</b>	<ul style="list-style-type: none"> <li>-To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.</li> </ul>
<b>The remote control doesn't seem to work</b>	<ul style="list-style-type: none"> <li>-The REMOTE CONTROL IN jack on the rear panel is connected.</li> <li>-Check that REMOTE CODE setting is set to the correct position.</li> </ul>
<b>Player does not respond to some operating commands during playback</b>	<ul style="list-style-type: none"> <li>-Operations may not be permitted by the disc. Refer to the instructions of the disc.</li> </ul>
<b>DVD player cannot read CDs/DVDs</b>	<ul style="list-style-type: none"> <li>-Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD player for repair.</li> </ul>
<b>Angle does not switch</b>	<ul style="list-style-type: none"> <li>-The angle cannot be switched for DVDs which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.</li> </ul>
<b>Playback does not start when the title is selected</b>	<ul style="list-style-type: none"> <li>-Check the "PARENTAL" setting.</li> </ul>
<b>The password for rating level has been forgotten</b>	<ul style="list-style-type: none"> <li>-Enter the default password "4737", then your forgotten password will be cleared</li> </ul>

### NOTE:

- 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.



## **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

---

**marantz**<sup>®</sup> is a registered trademark.



2004/05

12BW851310