

DENON

DVD VIDEO PLAYER

DVD-1720

OPERATING INSTRUCTIONS

MODE D'EMPLOI

BEDIENUNGSANLEITUNG

GEBRUIKSAANWIJZING

INSTRUCCIONES DE FUNCIONAMIENTO

ISTRUZIONI PER L'USO

BRUKSANVISNING

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



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

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



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



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

PRECAUTIONS

Laser Safety

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

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

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

LOCATION: PRINTED ON THE BACK

"CLASS 1
LASER PRODUCT"

Nonuse periods - Turn the unit off when it is not in use. Unplug the unit from the household AC outlet if it is not to be used for a long time. Unplug the unit during lightning storms.

Please read this operating instructions carefully before using your DVD video player, and keep this for future reference.

Declaration of Conformity

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:

EN60065, EN 55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.



PRECAUTIONS

Important

Use only discs marked with logos listed on page 6.

Power Supply

The main power supply is engaged when the main plug is plugged in a 200-240V, 50Hz AC outlet. To operate the unit, press the **ON/STANDBY** button and turn on the unit.

Warning

To avoid fire or electric shock, do not expose this unit to rain or moisture.

WARNING:
LIVE PARTS INSIDE.
DO NOT REMOVE ANY SCREWS.

Installation Location

For safety and optimum performance of this unit:

- Do not stand up the unit vertically. Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Shield it from direct sunlight and keep it away from sources of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.
- Be sure to remove a disc and unplug the AC power cord from the outlet before carrying the unit.

Cautions on Installation

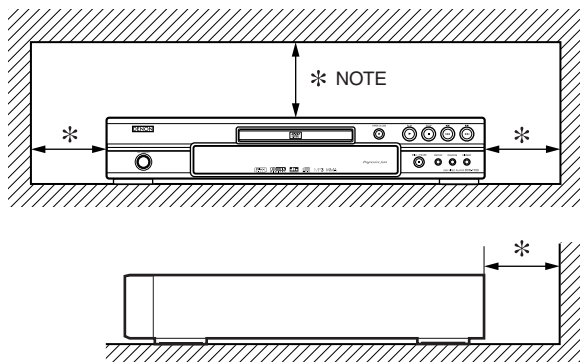
Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV.

If this happens, take the following steps:

- Install this unit as far as possible from the tuner or TV.
- Set the antenna wires from the tuner or TV away from this unit's power cord and input/output connection cords.
- Noise or disturbance tends to occur particularly when using indoor antennas or 300Ω/ohms feeder wires. We recommend using outdoor antennas and 75Ω/ohms coaxial cables.

NOTE:

- For heat dispersal, do not install this equipment in a confined space such as a book case or similar unit.



Dew Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place, or after heating a cold room or under conditions of high humidity. Do not use the DVD Player at least for 2 hours until its inside is dry.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC wall outlet. Grasp it by the plug.
- If, by accident, water is spilled on this unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.

Caution

- 1) Do not attempt to open the cabinet. There are no parts you can service inside. Refer all servicing to qualified service personnel.
- 2) Slot and openings in the cabinet and at the side or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating these opening must not be blocked or covered. Avoid enclosed spaces such as book cases unless proper ventilation is provided.
- 3) Keep the unit away from the radiator heat sources.
- 4) Avoid using near strong magnetic fields.
- 5) Do not push objects of any kind into this through the cabinet slot as they could touch current carrying parts or short circuit parts resulting in a fire or electric shock.
- 6) Never spill liquid of any kind on this unit.
If liquid is spilled into the unit, consult qualified service engineer.
- 7) Use this unit in a horizontal (flat) position only.
- 8) This equipment is in Stand-by mode when it is turned off whilst the power cord is connected.
- 9) Keep the set free from moisture, water and dust.
- 10) Handle the power cord carefully. Hold the plug when unplugging the cord.
- 11) All the safety cautions and operating instructions should be read before the DVD player is operated.
- 12) Use caution not to pinch your finger in the disc slot.
- 13) Do not put heavy objects on the AC power cord.
- 14) Keep the AC power cord away from heat appliances.
- 15) Be sure to remove a disc and unplug the AC power cord from the outlet before carrying the DVD player.
- 16) Do not put any pressure to the DVD player when carrying.
- 17) Do not use the DVD player outdoors.

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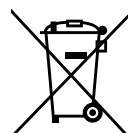
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A NOTE ABOUT RECYCLING:

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

When discarding the unit, comply with your local rules or regulations.

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



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.

INTRODUCTION

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

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

About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorised by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

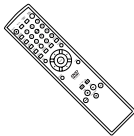
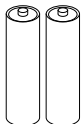




U.S. Patent Nos. 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132.

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 picture problems with 576 or 625 progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 576p or 625p 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.






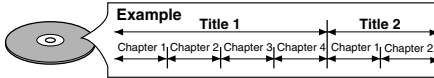

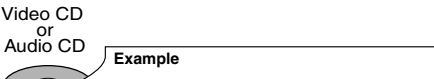
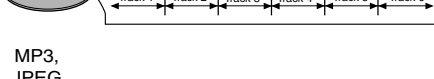
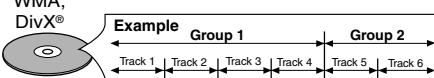




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Symbols Used in this Manual

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

DVD	:	Description refers to playback of DVD-Video discs (including DVD-R/RW discs).
DivX®	:	Description refers to playback of discs formatted with DivX®.
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.

Playable Discs

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Video * 1, 2, 3, 5					
DVD-RW DVD-R * 1, 3, 4, 5, 6, 7, 8	 	 or 	Digital video (MPEG2) DivX®	12 cm or 8 cm	
Video CD * 1, 3, 5, 9		-	Sound and Pictures	12 cm or 8 cm	  
Audio CD * 4, 6		-	Digital audio		
CD-RW CD-R * 4, 5, 6, 9	 	-	Digital audio MP3 WMA*10 Digital picture (JPEG) DivX®		
Picture CD		-	JPEG	12 cm	



is a trademark of DVD Format/Logo Licensing Corporation.



is trademark of Eastman Kodak Company.



Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

This unit is not compatible with Multiple Bit Rate (MBR: a file that contains the same content encoded at several different bit rates).



DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

If you cannot play back a disc which bears one of the marks above, check the following notes.

- *1: This player conforms to the PAL colour system. Also you can play back discs recorded with the NTSC system via a PAL system TV set.
- *2: Certain DVD discs do not operate as described in this manual due to the intentions of the disc's producers.
- *3: Scratched or stained discs may not be played back.
- *4: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.
- *5: You can play back discs which bear the marks above. If you use nonstandardized discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.
- *6: Only the discs recorded in the video format and finalized can be played back.
Unfinalized discs cannot be played back. Depending on the recording status of a disc, the disc may not be played back at all or normally (the picture or sound may be distorted, etc.).
- *7: If there is too much recordable space left on a disc (the used portion is less than 55mm across), it may not be played back properly.
- *8: Do not glue paper or put stickers on to the disc. These may damage the disc, and the unit may not read it correctly.
- *9: 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.
NOTE: When playing back Video CDs with PBC function, some operations (e.g., track search and repeat tracks) cannot be performed. Cancel PBC function temporarily to perform those operations (refer to page 15).
- *10: This player cannot play back the disc contents protected by Windows Media Digital Rights Management (DRM).

What is PBC? "PBC" stands for Playback Control.

You can play back interactive software using menu screens. Refer to instructions in the Video CD.

- **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
- **Any other discs without compatibility indications**

NOTES:

- 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.

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

The progressive scan system provides less flickering and images in higher resolution than that of traditional 625i (576i) television signals through the interlace scan system.

● Dolby Digital Sound

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

● DTS (Digital Theater System)

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

● Dialog Speed

Playback in slightly faster or slower speed while keeping the sound quality as in the normal playback.

Dialog speed is available only on discs recorded in the Dolby Digital format.

● Still/Fast/Slow/Step playback

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

● Still Mode

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

● Random Playback for Audio CD, MP3, JPEG, and WMA

This player can shuffle the playback order of tracks in random sequence.

● Programme Playback for Audio CD, MP3, JPEG, and WMA

You can programme the playback order of tracks in a desired sequence.

● DVD menus in a desired language

You can display DVD menus in a desired language if the language is available on the DVD.

● Auto Power Off

The power turns off automatically if there is no activity at the player or its remote control for more than 30 minutes (refer to page 25).

● Subtitles in a desired language

You can select a language for subtitles if the language is available on the DVD and DivX®.

● Selecting a camera angle

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

● Choices for audio language and sound mode

You can select a desired audio language and sound mode if different languages and modes are available on the disc.

● Ratings Control (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 whether a loaded disc is DVD-Video, Video CD, Audio CD, MP3, JPEG, WMA, or DivX®.

● Playing back an MP3 disc

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

● Direct Search

You can search a 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 the TV screen, allowing you to confirm the currently active functions (such as programme playback), using the remote control.

● Dimmer

The brightness of the display can be adjusted.

● Screen Saver

The screen saver programme starts if there is no activity at the player or its remote control for more than 5 minutes. The brightness of the display is darkened by 75%.

● Picture Control

Picture Control adjusts brightness, contrast, color, gamma correction and sharpness of the specific display.

● Search

Chapter search: Search for a desired chapter.

Title search: Search for a desired title.

Track search: Search for a desired track.

Time search: Search for a desired time point of a title or track.

● Repeat

Chapter: Repeated playback of a chapter of the disc.

Title: Repeated playback of a title of the disc.

Track: Repeated playback of a track of the disc.

All: Repeated playback of the entire disc. (exclude DVD-Video)

A-B: Repeated playback of a part between two points designated by user.

Group: Repeated playback of a folder of the MP3/JPEG/WMA/DivX® disc.

● Zoom

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

● Marker

Electronic reference point designated by user can be called back.

● Resume Playback

You can resume playback from the point at which the playback has been stopped.

● 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 when it is connected to an MPEG decoder.

● Displaying a JPEG picture

Kodak Picture CDs can be played back. Still images stored in JPEG format on CD-R/RW can also be played back.

● Reproducing WMA data

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

● Reproducing DivX® data

You can enjoy DivX® files which are recorded on DVD-R/RW or CD-R/RW.

- Official DivX Certified™ product

- Plays DivX®5, DivX®4, DivX®3, and DivX® VOD video content (in compliance with DivX Certified™ technical requirements).

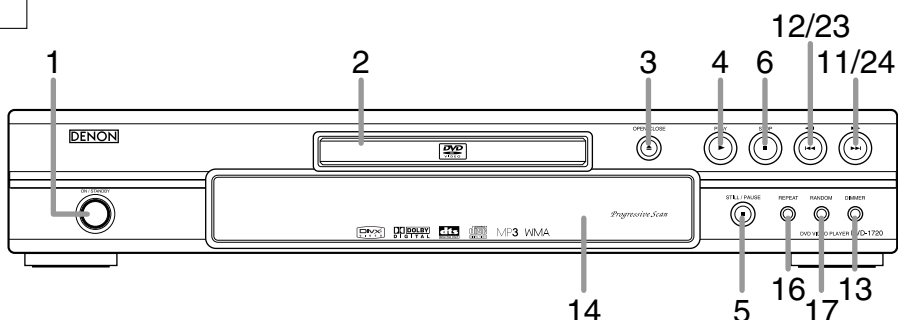
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

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

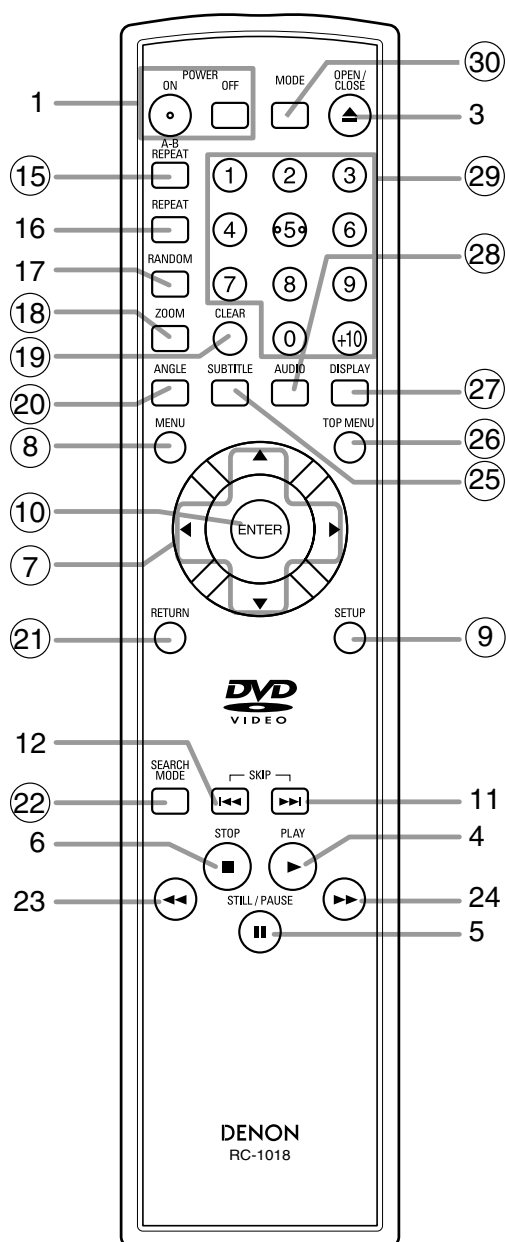
"WMA" (Windows Media Audio) is a new audio codec developed by Microsoft® in the United States of America.

FUNCTIONAL OVERVIEW

FRONT PANEL



REMOTE CONTROL

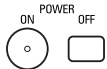











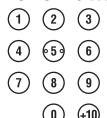


1. **ON/STANDBY (POWER ON/OFF) Buttons** [page 15]
2. **Disc loading tray**
3. **OPEN/CLOSE Button** [page 15]
4. **PLAY Button** [page 15]
5. **STILL/PAUSE Button** [page 15]
6. **STOP Button** [page 15]
7. **Cursor Buttons** [page 15]
8. **MENU Button** [page 15]
9. **SETUP Button** [page 24]
10. **ENTER Button** [page 15]
11. **▶▶(SKIP UP) Button** [page 17]
12. **◀◀(SKIP DOWN) Button** [page 17]
13. **DIMMER Button** [page 15]
14. **Remote Sensor Window**
15. **A-B REPEAT Button** [page 18]
16. **REPEAT Button** [page 18]
17. **RANDOM Button** [page 19]
18. **ZOOM Button** [page 16]
19. **CLEAR Button** [page 17]
20. **ANGLE Button** [page 23]
21. **RETURN Button** [page 15]
22. **SEARCH MODE Button** [page 17]
23. **◀◀ (Fast Reverse SEARCH) Button** [page 16]
Press more than 2 seconds when you use the front panel button for this function.
24. **▶▶ (Fast Forward SEARCH) Button** [page 16]
Press more than 2 seconds when you use the front panel button for this function.
25. **SUBTITLE Button** [page 22]
26. **TOP MENU Button** [page 15]
27. **DISPLAY Button** [page 21]
28. **AUDIO Button** [page 22]
29. **Numeric Buttons** [page 15]
30. **MODE Button** [page 16]












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

Tour of the Remote Control

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

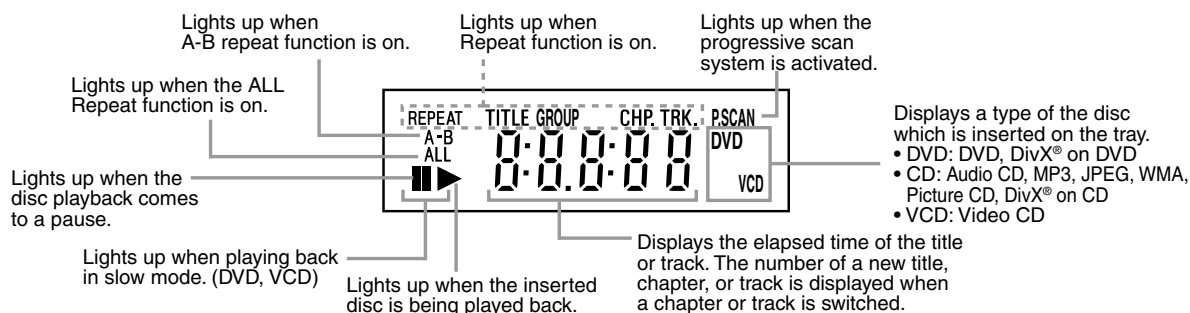
	DVD	VCD	CD, MP3, JPEG, WMA	DivX®
POWER 	<ul style="list-style-type: none"> To turn on or standby the unit. 	<ul style="list-style-type: none"> To turn on or standby the unit. 	<ul style="list-style-type: none"> To turn on or standby the unit. 	<ul style="list-style-type: none"> To turn on or standby the unit.
A-B REPEAT Button 	<ul style="list-style-type: none"> To mark a segment between A and B for repeated playback. 	<ul style="list-style-type: none"> To mark a segment between A and B for repeated playback. 	<ul style="list-style-type: none"> To mark a segment between A and B for repeated playback. (CD) 	<ul style="list-style-type: none"> To mark a segment between A and B for repeated playback.
REPEAT Button 	<ul style="list-style-type: none"> To repeat playback of a title or chapter. 	<ul style="list-style-type: none"> To repeat playback of a track or disc. 	<ul style="list-style-type: none"> To repeat playback of a track or disc. (CD) To repeat playback of a track, group or disc. (MP3, JPEG, WMA) 	<ul style="list-style-type: none"> To repeat playback of a track, group or disc.
RANDOM Button 	—	—	<ul style="list-style-type: none"> To play back tracks in random order. 	—
MODE Button 	<ul style="list-style-type: none"> To set Picture Control. To activate the 3D sound (Virtual surround system). To set Dialog Speed. 	<ul style="list-style-type: none"> To activate the 3D sound (Virtual surround system). To set Picture Control. 	<ul style="list-style-type: none"> To programme a specific playback order. To activate the 3D sound (Virtual surround system). (CD, MP3, WMA) To activate the Slide Show mode. (JPEG) 	<ul style="list-style-type: none"> To set Picture Control.
ZOOM Button 	<ul style="list-style-type: none"> To magnify part of the picture (x2/x4). 	<ul style="list-style-type: none"> To magnify part of the picture (x2). 	<ul style="list-style-type: none"> To magnify part of the picture (x2). (JPEG) 	<ul style="list-style-type: none"> To magnify part of the picture (x2).
ANGLE Button 	<ul style="list-style-type: none"> To select a camera angle on the disc. 	—	—	—
SUBTITLE Button 	<ul style="list-style-type: none"> To select a subtitle language on the disc. 	—	—	<ul style="list-style-type: none"> To select a subtitle language on the disc.
AUDIO Button 	<ul style="list-style-type: none"> To access various audio functions on the disc. 	<ul style="list-style-type: none"> To select STEREO, L-ch or R-ch. 	<ul style="list-style-type: none"> To select STEREO, L-ch or R-ch. (CD) 	<ul style="list-style-type: none"> To access various audio functions on the disc.
DISPLAY Button 	<ul style="list-style-type: none"> To display the current disc mode. 	<ul style="list-style-type: none"> To display the current disc mode. 	<ul style="list-style-type: none"> To display the current disc mode. 	<ul style="list-style-type: none"> To display the current disc mode.
SEARCH MODE Button 	<ul style="list-style-type: none"> To search for a chapter, title, time or marker. To rapidly return to a location on the disc. 	<ul style="list-style-type: none"> To search for a track, time or marker. To rapidly return to a location on the disc. 	<ul style="list-style-type: none"> To search for a track. To search for time or a marker. (CD) To rapidly return to a location on the disc. 	<ul style="list-style-type: none"> To search for a track or time. To rapidly return to a location on the disc.
OPEN/CLOSE Button 	<ul style="list-style-type: none"> To open or close the disc tray. 	<ul style="list-style-type: none"> To open or close the disc tray. 	<ul style="list-style-type: none"> To open or close the disc tray. 	<ul style="list-style-type: none"> To open or close the disc tray.
Numeric Buttons 	<ul style="list-style-type: none"> To select a chapter or title directly. 	<ul style="list-style-type: none"> To select a track directly. 	<ul style="list-style-type: none"> To select a track directly. 	<ul style="list-style-type: none"> To select a track directly.

Tour of the Remote Control

	DVD	VCD	CD, MP3, JPEG, WMA	DivX®
CLEAR Button 	<ul style="list-style-type: none"> To clear the markers. To clear the numbers entered incorrectly. To cancel the point for A-B Repeat. 	<ul style="list-style-type: none"> To clear the markers. To clear the numbers entered incorrectly. To cancel the point for A-B Repeat. 	<ul style="list-style-type: none"> To clear the markers. (CD) To remove status number in programme input. To clear the numbers entered incorrectly. To cancel the point for A-B Repeat. (CD) 	<ul style="list-style-type: none"> To clear the numbers entered incorrectly. To cancel the point for A-B Repeat.
MENU Button 	<ul style="list-style-type: none"> To call up the menu on a disc. 	—	<ul style="list-style-type: none"> To call up the file list. (MP3, JPEG, WMA) 	<ul style="list-style-type: none"> To call up the file list.
TOP MENU Button 	<ul style="list-style-type: none"> To call up the top menu on a disc. 	—	<ul style="list-style-type: none"> To return to the top file in the highest hierarchy of the file list. (MP3, JPEG, WMA) 	<ul style="list-style-type: none"> To return to the top file in the highest hierarchy of the file list.
ENTER, Cursor Buttons 	<ul style="list-style-type: none"> To move the cursor and determine its position. 	<ul style="list-style-type: none"> To move the cursor and determine its position. 	<ul style="list-style-type: none"> To move the cursor and determine its position. 	<ul style="list-style-type: none"> To move the cursor and determine its position.
RETURN Button 	<ul style="list-style-type: none"> To return to the previous operation in the Setup menu. 	<ul style="list-style-type: none"> To return to the previous operation in the Setup menu. 	<ul style="list-style-type: none"> To return to the previous operation in the Setup menu. 	<ul style="list-style-type: none"> To return to the previous operation in the Setup menu.
SETUP Button 	<ul style="list-style-type: none"> To call up the Setup menu. 	<ul style="list-style-type: none"> To call up the Setup menu. 	<ul style="list-style-type: none"> To call up the Setup menu. 	<ul style="list-style-type: none"> To call up the Setup menu.
SKIP Buttons 	<ul style="list-style-type: none"> To skip chapters/titles. 	<ul style="list-style-type: none"> To skip tracks. 	<ul style="list-style-type: none"> To skip tracks. 	<ul style="list-style-type: none"> To skip tracks.
SEARCH Buttons 	<ul style="list-style-type: none"> To search forward/backward through a disc. To begin slow forward/slow reverse. 	<ul style="list-style-type: none"> To search forward/backward through a disc. To begin slow forward. 	<ul style="list-style-type: none"> To search forward/backward through a disc. (CD, MP3, WMA) 	<ul style="list-style-type: none"> To search forward/backward through a disc. To begin slow forward.
STOP Button 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback. 	<ul style="list-style-type: none"> To stop playback.
PLAY Button 	<ul style="list-style-type: none"> To begin playback. 	<ul style="list-style-type: none"> To begin playback. 	<ul style="list-style-type: none"> To begin playback. 	<ul style="list-style-type: none"> To begin playback.
STILL/PAUSE Button 	<ul style="list-style-type: none"> To pause playback. To advance playback frame by frame. 	<ul style="list-style-type: none"> To pause playback. To advance playback frame by frame. 	<ul style="list-style-type: none"> To pause playback. 	<ul style="list-style-type: none"> To pause playback. To advance playback frame by frame.

FUNCTIONAL OVERVIEW

Front Panel Display



Displays during Operation

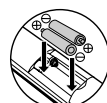
	Power on
	No disc inserted or cannot read
	Tray open
	Tray closed
	Loading the Disc
	Lights up when the playback control is activated (VCD)
	Power off

Loading the Batteries

1. Open the battery compartment cover.



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



3. Close the cover.

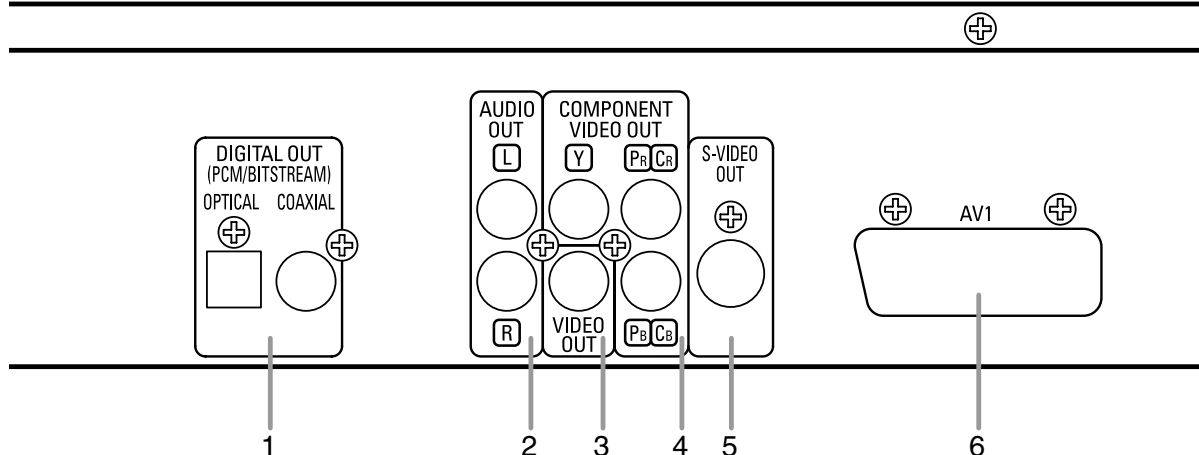


Cautions On Batteries

- 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 function within a close proximity of the main unit, replace the batteries with new ones, even if less than a year has passed.
- The included batteries are only for verification purpose. 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 mix a new battery with an old one.
 - Do not mix 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.

CONNECTIONS

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 centre).

2. AUDIO OUT Jacks

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

3. VIDEO OUT Jack

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

4. COMPONENT VIDEO OUT Jacks

Use these jacks if you have a TV with Component Video in jacks. These jacks provide C_B/P_B, C_R/P_R and Y video. Along with S-Video, Component Video provides the best quality picture.

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. AV1 Jack

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

NOTE:

- 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 Component Video jacks are connected to the TV, a distorted video signal may be output (refer to page 24).

CAUTION:

- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the 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 PROGRESSIVE in the display setting. Next, set your TV to the progressive scan mode. Refer to page 24 for instructions on changing the display setting. P.SCAN will appear on the display of the unit.
- If your TV is not compatible with progressive scan, set VIDEO OUT to COMPONENT INTERLACE by changing the display setting (refer to page 24). Make sure that P.SCAN on the display of the unit lights off.
- Use a commercially available adaptor if the video input jacks of your TV or monitor is the BNC type.

What is Progressive Scanning?

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

CONNECTIONS

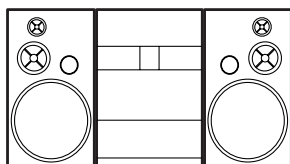
The following shows examples of connections commonly used to connect the DVD player to TV and other components. If using this DVD player to play back a DVD in a Dolby Digital 5.1 channel surround or DTS surround format, the DVD player outputs a Dolby Digital or DTS data stream from its OPTICAL or COAXIAL DIGITAL OUT jacks. By connecting the player to a Dolby Digital, DTS or MPEG decoder, you can enjoy more convincing, realistic ambience with powerful and high-quality surrounding sound of a professional standard which can be heard in movie theaters. Use an audio optical (not included) or coaxial 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

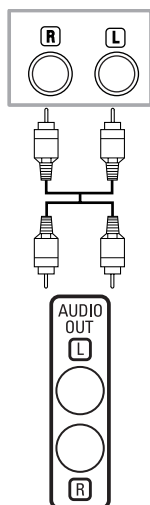


Stereo system

AUDIO

Audio Input
Jacks

Audio cable
(Supplied)



DVD

ANALOG
AUDIO OUT

Method 2

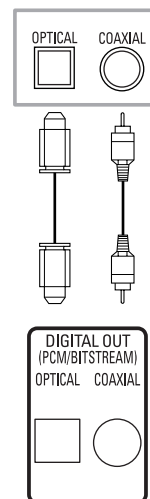


AV amplifier with a built in decoder
(AV control centre),
Dolby Digital decoder,
DTS decoder, MPEG decoder,
MD deck or DAT deck

Digital Audio
Input Jacks

Optical cable
(Commercially
available)

DIGITAL OUT



Audio Coaxial
Digital cable
(Commercially
available)

- **Method 1** DVD Player + Stereo system
- **Method 2** DVD Player + AV amplifier with a built in decoder (AV control center), Dolby Digital decoder, DTS decoder, MPEG decoder, MD deck or DAT deck

NOTES (for Method 2 only):

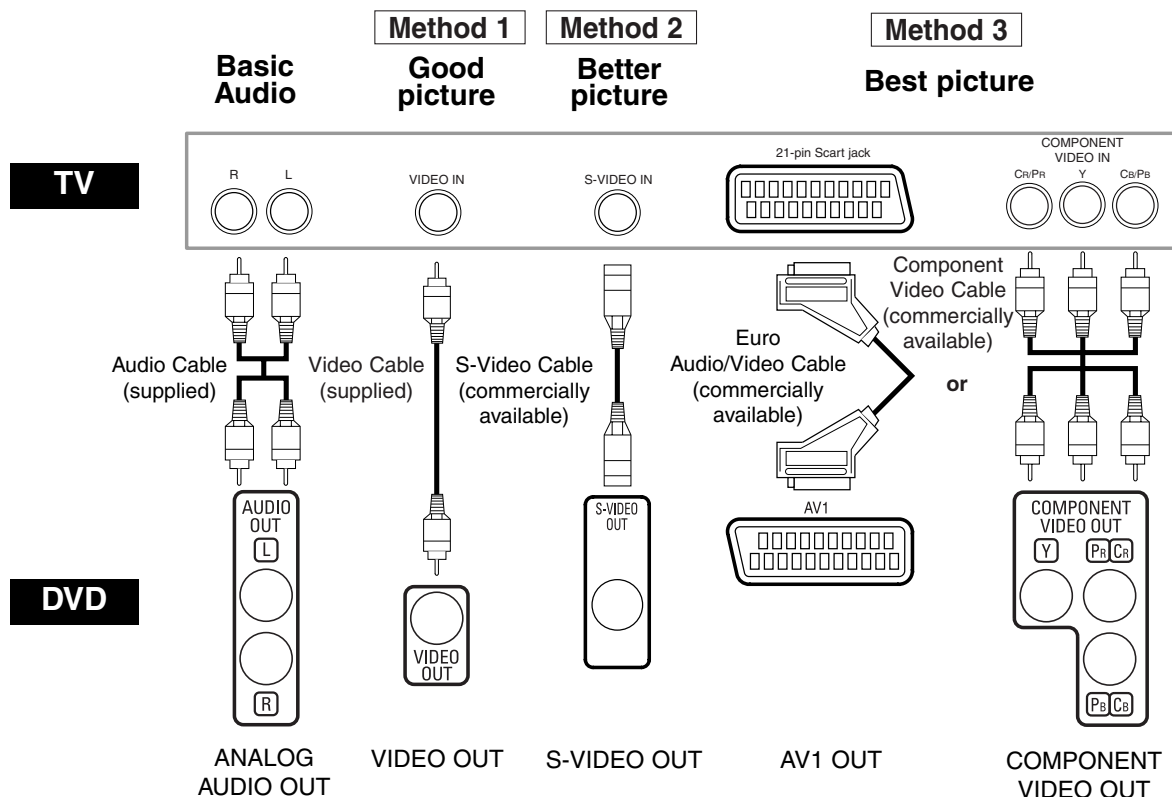
- When using an AV amplifier with a built-in decoder (AV control center), Dolby Digital, DTS, or MPEG decoder as shown in the Method 2, set DOLBY DIGITAL, DTS or MPEG to BITSTREAM accordingly for audio output in the setup menu (refer to pages 24 and 25). Set it to PCM or OFF for the decoder that is not used currently. Playing back a DVD using incorrect settings may generate noise distortion, and may also damage the speakers.
- The audio source on a disc in a Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD deck or DAT deck.
- Set DOLBY DIGITAL and MPEG to PCM, and DTS to OFF for audio output in the setup menu for connecting to an MD deck or DAT deck (refer to pages 24 and 25).
- Harsh noise that could harm your ears or the speakers is generated when a DVD recorded in DTS is played back while using a decoder, etc., that is not DTS-compatible.
- When playing back a copyright-protected 96kHz (88.2kHz) linear PCM DVD, the digital sound will be down sampled at 48kHz (44.1kHz), even if you set LPCM SELECT to OFF (refer to pages 24 and 25).

Optical cable (commercially available)

- Optical cable (commercially available) 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 dust 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 TV with Component Video Jacks

NOTES:

- Connect the DVD player directly to a TV. If the Audio/Video 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 colour (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 this unit S-Video output connector using a commercially available S-Video connection cord.

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

Even 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 CD VCD MP3 JPEG WMA
DivX®

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 ON/OFF** button.

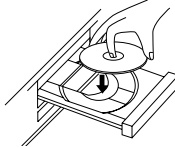
- P-ON will appear briefly on the display panel.

2 Press the **OPEN/CLOSE** button to open disc loading tray.

3 Place the disc on the tray, with the label facing up.

4 Press the **PLAY** button.

- The tray will close automatically, then playback will start from the first chapter or track of the disc. If the playback does not start automatically, press the **PLAY** button.
- When you play back 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 programme 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 play back DVDs with disc menu or Video CDs with PBC. Refer to the manual accompanying the disc for details.



CANCELLING AND CALLING BACK PBC FUNCTION

VCD

1 Insert a Video CD.

2 Press the **STOP** button.

3 Press the **Numeric** buttons to enter the desired Track number.

- PBC function is now cancelled and the playback of the Video CD will start.

4 To call back PBC function, press the **STOP** button twice, and then press the **PLAY** button.

- The title menu will appear on the display.

Brightness of the Front Panel Display

1 Press the **DIMMER** button on the front panel to select the desired brightness of the front panel display. (BRIGHT, DIMMER or OFF)

- The default setting is BRIGHT.

NOTES:

- The brightness of the front panel display can be adjusted from the setup menu. Details are on page 25.
- When you turn on the power next time, the brightness of the front panel display will be as set in setup menu.

General Features

DVD

DVD may contain menus to navigate the disc and access special features. Press the appropriate **Numeric** buttons or use the **Cursor** buttons (▼/▲/▶/◀) to highlight your selection in the DVD main menu and press the **ENTER** button to confirm.

NOTE:

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

Disc Menu

DVD

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 the selection.

Title Menu

DVD

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 the selection.

- Playback will begin at the selected title.

VCD

1 When playing back 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

- 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 among discs. Refer to the manual accompanying the disc for details.

Still / Pause

DVD CD VCD MP3 JPEG WMA
DivX®

1 During playback, press the **STILL/PAUSE** button.

- Playback will pause and sound will be muted.



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

NOTE:

- Set STILL MODE to FIELD on the display menu if pictures in the pause mode are blurred (refer to page 24).

DISC PLAYBACK

Resume

DVD CD VCD MP3 JPEG WMA

DivX®

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

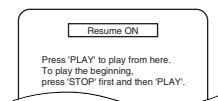
- Resume message will appear on the TV screen.

- 2 Press the **PLAY** button, playback will resume from the point at which playback was stopped.

- To cancel resume, press the **STOP** button again.

NOTES:

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



<Example: DVD>

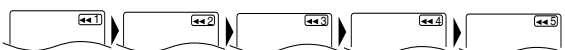
Fast Forward / Reverse Search

DVD CD VCD MP3 WMA DivX®

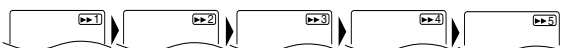
- 1 During playback, press the **FF** or **REW** button repeatedly to select a desired forward or reverse speed.

- For DVDs, fast forward or reverse search speed is different depending on the disc. The approximate speed is 1 (x2), 2 (x8), 3 (x20), 4 (x50) and 5 (x100).

◀◀ Button



▶▶ Button



- For Video CDs, Audio CDs, MP3, WMA, and DivX®, the approximate speed is 1 (x2), 2 (x8) and 3 (x30).
- For Audio CDs, MP3 and WMA, sound will be output at any speed of fast forward and reverse search.

- 2 To return to normal playback, press the **PLAY** button.

NOTES:

- Picture quality of DivX® files in fast reverse is lower than that in fast forward.
- For some DivX® files, Fast Forward/Reverse Search may not function.

Slow Forward / Slow Reverse

DVD VCD DivX®

- 1 During playback, press the **STILL/PAUSE** button.
- 2 Press the **FF** or **REW** button.

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

- 3 Press the **FF** or **REW** button repeatedly to select a desired speed.

- Slow forward or reverse speed is different depending on the disc. The approximate speed is 1 (1/16), 2 (1/8), and 3 (1/2).

- 4 To return to normal playback, press the **PLAY** button.

NOTES:

- Set STILL MODE to FIELD on the display menu if pictures in the slow playback mode are blurred (refer to page 24).
- Only Slow Forward is available when playing back Video CD and discs with DivX® files.

Step by Step Playback

DVD VCD DivX®

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

- Playback will pause and sound will be muted.



- 2 The disc advances frame by frame each time the **STILL/PAUSE** button is pressed.

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

NOTE:

- Set STILL MODE to FIELD on the display menu if pictures in the pause mode are blurred (refer to page 24).

Picture Control

DVD VCD DivX®

Picture Control adjusts Brightness, Contrast, Color, Gamma Correction and Sharpness of the specific display.

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

- 2 Press the **Cursor** button (**▲** or **▼**) to switch among items.

- 3 Press the **ENTER** button or the **Cursor** button (**▶** or **◀**) to adjust the selected item to a desired level.

- -6, -5, -4, -3, -2, -1, 0, +1, +2, +3, +4, +5, +6 can be selected.

- 4 To return to normal playback, press the **RETURN** button.

NOTES:

- The default settings for all items in Picture Control are "0".
- The setting display will disappear in 10 seconds of no use.
- This function cannot be used during Dialog Speed (refer to page 17).

Zoom

DVD VCD JPEG DivX®

This function allows you to enlarge the video image and to pan through the zoomed image.

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

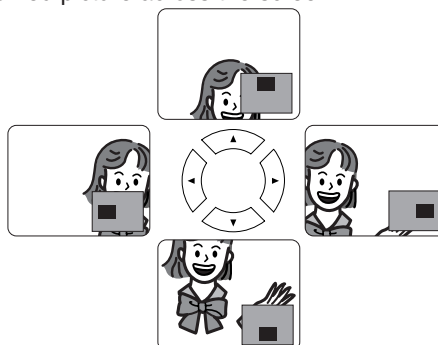
- Playback will continue.

- 2 Press the **ZOOM** button repeatedly to select a desired zoom factor: x2, x4 or off.

- Only x2 zoom is available on Video CDs, JPEG and DivX®.



- 3 Use the **Cursor** buttons (**▼** / **▲** / **▶** / **◀**) to move the zoomed picture across the screen.



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

NOTES:

- Zoom function does not work while the disc menu is shown.
- x4 zoom is not available on some discs.
- Navigation screen is not available on JPEG.
- You cannot pan through the zoomed picture on some JPEG files.

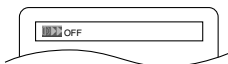
DISC PLAYBACK

Dialog Speed

DVD

Available only on discs recorded in the Dolby Digital format, Dialog Speed plays back in slightly faster or slower speed while keeping the sound quality as in the normal playback.

- 1 During playback, press the **MODE** button repeatedly until the Dialog Speed setting appears.



- OFF appears on the TV screen.

- 2 Press the **ENTER** button or the **Cursor** button (◀ or ▶) to switch among ♪ (x1.3), ♫ (x0.8) and OFF.
 - ♪ : Plays back approximately at 0.8 times of normal playback.
 - ♪♪ : Plays back approximately at 1.3 times of normal playback.

- 3 To return to normal playback, press the **PLAY** button.

NOTES:

- Every time you press the **STOP** button, the setting will be turned OFF.
- Subtitles can be viewed during this function.
- Picture Control and Audio Language setting cannot be changed while using this mode.
- Virtual Surround does not function while using this mode.
- This feature may not work at some point on a disc.
- When using digital audio connection (COAXIAL or OPTICAL), the LPCM sound (2 channel) will be output.
- When using Dialog Speed function with 5.1 channel digital outputting, the analog output sound will be fixed at 2 channel.
- When using digital audio connection, only the Dolby Digital sound will be available.

Slide Show Mode

JPEG

You can switch to slide show mode during playback.

- 1 Press the **MODE** button once during playback.
 - The slide show mode screen will appear.
 - You cannot switch the slide show mode 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 and disappears gradually.

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

Title / Chapter Search

DVD

By using the SEARCH MODE button

- 1 Press the **SEARCH MODE** button repeatedly until the chapter search or the title search screen appears during playback.



- 2 Enter the desired chapter/title number with the **Numeric** buttons.

By using the SKIP buttons ◀◀▶▶

During playback, press the **SKIP** ▶▶ button to move to the next chapter. Press it repeatedly to skip to subsequent chapters. Press the **SKIP** ◀◀ button to go back to the beginning of the current chapter. Press it repeatedly to go to the previous chapters.

- Chapter number will appear briefly on the front display panel.
- If the **SKIP** ◀◀ or ▶▶ button is pressed while the playback is paused, the playback after skipping to the next chapter will be also paused.

NOTES:

- Depending on the disc, the **Numeric** buttons can be used to search for a desired chapter by entering the chapter number directly. Refer to the manual accompanying the disc.
- The **SKIP** ◀◀, ▶▶ buttons are not available when playback is stopped.
- A disc that does not contain chapters within titles, the **SKIP** ◀◀, ▶▶ buttons change the titles.

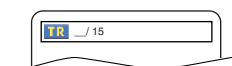
Track Search

CD VCD MP3 JPEG WMA DivX®

There are two ways to begin playback an Audio CD, Video CD, MP3, JPEG, WMA or DivX® disc at a specific track.

By using the SEARCH MODE button

- 1 Press the **SEARCH MODE** button.



- The track search display appears.
- 2 Within 30 seconds, select a desired track number using the **Numeric** buttons.
 - For the disc with less than 10 tracks, press the track number directly.
 - For discs with 10 or more but less than 100 tracks, to play back a single-digit track, press **0** first, then the track number (e.g. for track 3, press **0**, **3**). To play back a double-digit track, press the track number.
 - For discs with 100 or more tracks, to play back a single- or a double-digit track, press **0** first, then the track number (e.g. for track 3, press **0**, **0**, **3**, and for track 26, press **0**, **2**, **6**). To play back a triple-digit track, press the track number.
 - Press the **CLEAR** button to erase the incorrect input.

NOTE:

- The **+10** button can also bring up the track search display except for the disc with less than 10 tracks. For such a disc, track search can be done by just pressing the track number.

By using the SKIP buttons ◀◀▶▶

During playback, press the **SKIP** ▶▶ button to move to the next track. Press it repeatedly to skip to 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 front panel display.
- If the **SKIP** ◀◀ or ▶▶ 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 CD VCD DivX®

- 1 Press the **SEARCH MODE** button until the time search screen appears on the TV screen.

- 2 Within 30 seconds, enter a desired time point on the disc with the **Numeric** buttons.



DISC PLAYBACK

- 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 on the time search screen if the total time of the title or track is less than 10 minutes.

3 Press the **CLEAR** button to erase an incorrect input.

NOTE:

- For some DivX® files, Time Search may not function.

Marker Setup Screen

DVD **CD** **VCD**

You can 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 the number of the marker (1-10) and ensure that " _ : _ : _ " appears on the display.

3 When the disc reaches the point where you want to remember, press the **ENTER** button.

- The title or track and elapsed playback time will appear on the TV screen.

4 To return to the Marker later, press the **SEARCH MODE** button repeatedly during playback and the **Cursor** buttons (◀ or ▶) to choose a desired marker, then press the **ENTER** button.

5 Press the **SEARCH MODE** or **RETURN** button to exit.

NOTES:

- Opening the disc tray, turning off the power, or selecting AC at step **2** and pressing the **ENTER** button will erase all Markers.
- To clear a marker, using the **Cursor** buttons (◀ or ▶) button, select the marker number to be cleared and press the **CLEAR** button.
- You can mark up to 10 points.

Repeat

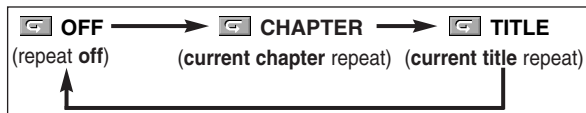
- The **REPEAT** button is available only during playback.

REPEAT TITLE / CHAPTER

DVD

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

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



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 Repeat function, press the **REPEAT** button during playback.

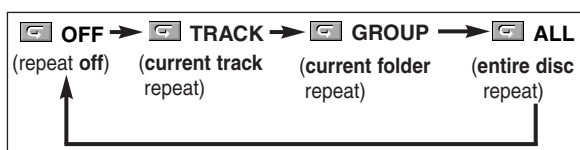
- The repeat mode changes as described below every time you press the button.



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 back the Video CD with PBC function.

MP3 **JPEG** **WMA** **DivX®**



NOTE:

- The Repeat setting will be cleared when moving to another title, chapter, track or group.

A-B REPEAT

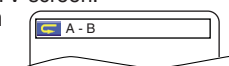
DVD **CD** **VCD** **DivX®**

1 Press the **A-B REPEAT** button at your desired starting point.



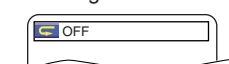
- **A -** appears briefly on the TV screen.

2 Press the **A-B REPEAT** button again at your desired end point.



- **A - B** appears briefly on the TV screen, and the repeat sequence begins.

3 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 and discs with DivX® files).
- A-B Repeat playback is not available with some scenes on 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.
- For some DivX® files, A-B Repeat playback may not function.

Programme Playback

This function allows you to programme a playback order of Audio CD, MP3, JPEG or WMA in a desired sequence.

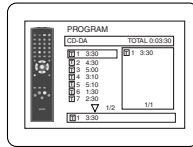
CD

1 In stop mode, press the **MODE** button.

- The programme screen will appear.

2 Press the **Cursor** buttons (▲ or ▼) to select a track, then press the **ENTER** button.

- Press the **CLEAR** button to erase the most recently entered programme.



3 Press the **PLAY** button to start programmed playback.

MP3

JPEG

WMA

1 In stop mode, press the **MODE** button.

- The programme screen will appear.

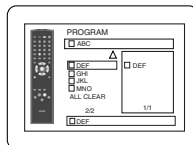
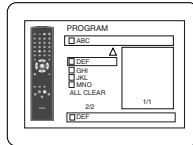
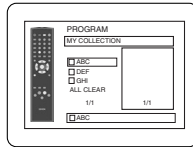
2 Press the **Cursor** buttons (▲ or ▼) to select a group, then press the **ENTER** button.

- 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 most recently entered track.
- The programmed track is displayed in the right-hand screen.
- If the entire programme cannot be displayed on the screen, "▼" appears.

- Pressing the **Cursor** button (◀) will show a list of folders that belong to the hierarchy which is one-level higher than the currently selected folder.



4 Press the **PLAY** button to start programmed playback.

- Press the **RETURN** button, and the stop screen will show up with the programme contents in memory.

NOTES:

- 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 programme is still stored until either the disc tray is open or power is turned off.
- Up to 99 tracks can be entered.
- To erase tracks in the programme all together, select ALL CLEAR at the bottom of the list at step **2**.
- To repeat the current track in the programme, press the **REPEAT** button repeatedly until TRACK appears during playback. To repeat the entire programme press the **REPEAT** button repeatedly until ALL appears during playback.
- If eight or more tracks were set in a programme, use the **SKIP** ◀◀ or ▶▶ button to see all the tracks.
- When selecting the folder:
 - Press the **Cursor** button (▶) when you want to go to the next hierarchy.

- Press the **Cursor** button (◀) when you want to go back to the previous hierarchy (except for the top hierarchy).

- Even if an inserted disc contains mixed MP3, JPEG and WMA files, 99 tracks in combination of MP3, JPEG and WMA files can be entered.

Random Playback

CD

MP3

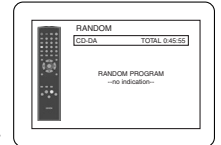
JPEG

WMA

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

1 In stop mode, press the **RANDOM** button.

- The random screen will appear.



<Example: Audio CD>

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

NOTES:

- To repeat the current track in the random selection, press the **REPEAT** button repeatedly until TRACK appears during playback. To repeat the entire random selection press the **REPEAT** button repeatedly until ALL appears during playback.
- You cannot go back to the previous track during random playback.
- For a disc containing mixed MP3, JPEG and WMA files, random playback of those files will be performed.

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. The number of tracks is also displayed on the front panel.

1 Press the **Cursor** buttons (▲ or ▼) to select a desired group (folder) or track.

- To return to the previous screen, press the **Cursor** button (◀).
- If a group (folder) is selected, press the **Cursor** button (▶) 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 back tracks. The selected track and the subsequent tracks will be played back.
- When selecting the folders
 - Press the **Cursor** button (▶) when you want to go to the next hierarchy.
 - Press the **Cursor** button (◀) when you want to go back to the previous hierarchy (except for the top hierarchy).
- Press the **TOP MENU** button to return to the first item.

2 Press the **STOP** button to stop playback.

NOTES:

- Folders are known as Groups; files are known as Tracks.
- A symbol of 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 recognized.
- Maximum of 999 files can be recognized.
- Up to 8 hierarchies can be recognized.
- 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 "▼".

DISC PLAYBACK

- 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.
- For MP3 and WMA files recorded in Variable Bit Rate (VBR), the unit may not display the actual elapsed time.

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

Applicable MP3 file		Remarks
Sampling frequency	44.1kHz 48kHz	• It is prohibited to record MP3 sound on a digital device when the connection is made digitally.
Type	MPEG1 audio layer 3	• MP3 files recorded at fixed bit rate of 32 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

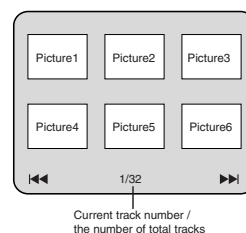
- This DVD player can play back images and sounds from data recorded in MP3 and JPEG formats on CD-R and CD-RW discs.
- A file with an extension of ".mp3 (MP3)" is called an MP3 file.
- A file with an extension of ".jpg (JPG)" or ".jpeg (JPEG)" is called a JPEG file.
The DVD player can run an image file 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 on 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 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. You can enjoy picture images on the television set by playing back the Picture CDs.
For details of Kodak Picture CD, contact a shop that provides photo developing service of Kodak Inc.

- 1 In stop mode, press the **MENU** button. Kodak Picture CD menu appears.

- If all menu items cannot be displayed on 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 back, 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 or 10 seconds and then the next track is displayed.
- Every press on the **Cursor** button (►) will turn the image clockwise by 90 degrees when an image is displayed. A press on the **Cursor** button (◀) will turn the image counterclockwise by 90 degrees.
- To change the size of the playback image, press the **MODE** button twice. The size change mode appears on top of the TV screen during playback. Then press the **Cursor** buttons (◀, ►) or **ENTER** button to switch between **NORMAL** (100%) and **SMALL** (95%).
- Progressive JPEGs (JPEG files saved in the progressive format) will not be played back on this DVD player.
- High resolution JPEG files takes longer to be displayed.
- The size change mode may have no effect on some files (e.g. files with a small picture size).

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 up to 25 characters.
- Maximum of 8 subfolders can be recognized.
- It can also be displayed tag information of WMA at least 64 characters.
- A file with an extension of Joliet as Unicode format in up to 64 characters can be recognized.
- This unit cannot play back copyright protected WMA files.

DivX® Playback


DivX®

This DVD player can play back DVD-R/RW and CD-R/RW discs recorded in DivX® Format. When a DVD-R/RW or CD-R/RW with DivX® files is inserted in the DVD player and the **MENU** button is pressed, the file list will appear. The number of tracks will be also displayed on the front panel.

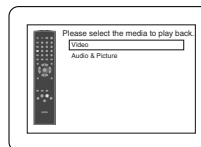
- Press the **Cursor** buttons (▲ or ▼) to select the desired group (folder) or track.
 - To return to the previous screen, press the **Cursor** button (◀).
 - If a group (folder) is selected, press the **Cursor** button (▶) or **ENTER** button to go on to the track selection screen. Press the **Cursor** 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 back tracks. The selected track and the subsequent tracks will be played back.
 - When selecting the folders:
 - Press the **Cursor** button (▶) when you want to go to the next hierarchy.
 - Press the **Cursor** button (◀) when you want to go back to the previous hierarchy (except for the top hierarchy).
 - Press the **TOP MENU** button to return to the first item.

- Press the **STOP** button to stop playback.

NOTES:

- DivX® is a codec (compression/decompression) that can compress images to a very small amount of data. The software can compress video data from almost any sources to the size that can be sent on the Internet without compromising visual quality of the images.
- A file with an extension of ".avi" and ".divx" is called an DivX® file. All files with the ".avi" extension are recognized as MPEG 4.
- Files whose extension other than ".avi" and ".divx" will not be listed on the DivX® menu. However, unplayable groups or tracks may be displayed, depending on the recording conditions.
- Even if the file has an extension of either ".avi" and ".divx", this player cannot play it back if it is recorded in the format other than DivX®.
- Folders are known as Groups; files are known as tracks.
- A symbol of  is shown on the top of the group name.
- Maximum of 255 folders can be recognized.
- Maximum of 999 files can be recognized.
- 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 "▼".
- The name of group and track can be displayed up to 25 characters. Unrecognizable characters will be replaced with asterisks. The ninth and deeper hierarchies cannot be displayed.
- You can play back the disc recorded in multi-session.
- Playback will be paused if the file list is displayed during the playback.
- It may take a while for audio and images to be output after you inserted a disc and pressed the **PLAY** button.
- When playing back the files recorded in high bit rates, the images can be interrupted in some occasions.
- Although DivX® logo has been obtained for this player, it may not be able to play back some data, depending on the disc characteristics, bit rates, or audio format settings, etc.
- Use the software recognized by DivX®, Inc. when you make DivX® files.
- When using tools or utilities to make up DivX® files, read their instruction manual beforehand.
- A DivX® file whose file size exceeds 2GB cannot be played back.

- If a large-sized DivX® file is selected, it may take a while to start the playback (over 20 seconds sometimes).
- If DivX® files wrote on CD discs cannot be played back, rewrite them on a DVD disc and try to play back.
- For more information for DivX®, please visit <http://www.divx.com>.
- If you insert a CD-R/RW with DivX® files that are mixed with MP3, JPEG, or WMA files, the Playback Media Selection screen will be displayed. Please select Video and proceed to Step 1.



- Press the **TOP MENU** button to call up the Playback Media Selection screen in stop mode.
- If you select Audio & Picture, instead of Video on the Playback Media Selection screen, the DVD player can play back MP3/JPEG/WMA files. Refer to page 19 for details.

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

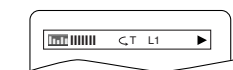
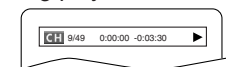
Applicable DivX® file		Remarks
Playable Codec of AVI files	DivX®3.1.1, DivX®4.x, DivX®5.1.1	• They are recognized as MPEG 4.
Maximum size of image	720 x 480 @30 fps 720 x 576 @25fps	
Sampling frequency of audio	8 kHz - 48kHz	• It is prohibited to record MP3 sound on a digital device when the connection is made digitally.
Audio type	MPEG1 audio layer 3 (MP3) MPEG1 audio layer 2	• MP3 files recorded at fixed bit rate of 32 kbps or higher are recommended.

Changing the On-Screen Display

DVD

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

- Press the **DISPLAY** button during playback.
 - Current chapter number/total chapters, elapsed time and remaining time of the current chapter, and current playback status will be displayed.
- Press the **DISPLAY** button again.
 - Current title number/total titles, elapsed time and remaining time of the current title, and current playback status will be displayed.
- Press the **DISPLAY** button for the third time.
 - The bit rate (the amount of audio and video data currently being read) and current playback status will be displayed.
 - Current repeat setting appears on the right side of the display bar only when the repeat setting is active. (◀ C: Chapter repeat/◀ T: Title repeat/A◀ B: A-B repeat)
 - If you are playing back a two-layered disc, the layer number will also be displayed. (L0: Layer 0 is being played back. L1: Layer 1 is being played back.)
- Press the **DISPLAY** button again to exit.



DISC PLAYBACK

CD VCD

- Press the **DISPLAY** button during playback.
 - Current track number/total tracks, elapsed time and remaining time of the current track, and current playback status will be displayed.
 - Current repeat setting appears on the right side of the display bar only when the Repeat setting is active.
(◁ T: Track repeat/ ▷ A: All tracks repeat/A ▷ B: A-B repeat)
- Press the **DISPLAY** button again.
 - Current track number/total tracks, elapsed time and remaining time of the entire disc, and current playback status will be displayed.
 - Current repeat setting appears on the right side of the display bar only when the Repeat setting is active.
(◁ T: Track repeat/ ▷ A: All tracks repeat/A ▷ B: A-B repeat)
 - When you are playing back a disc in programme or random mode, **PROGRAM** (or **RANDOM**) will be displayed.
- Press the **DISPLAY** button again to exit.

MP3 JPEG DivX®

- Press the **DISPLAY** button.
 - Current file name will be displayed.
- Press the **DISPLAY** button.
 - Current track number/total tracks and elapsed time (MP3) will be displayed.
 - Current repeat setting appears only when the Repeat setting is active.
(◁ T: Track repeat/ ▷ A: All (disc) repeat/ ▷ G: Group repeat).
 - When you are playing back a disc with MP3 or JPEG files in programme or random mode, **PROGRAM** (or **RANDOM**) will be displayed.
- Press the **DISPLAY** button to exit.
 - During programme or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button to exit.

WMA

- Press the **DISPLAY** button.
 - Current file name will be displayed.
- Press the **DISPLAY** button again.
 - Title name based on tag information of currently played-back file will be displayed.
- Press the **DISPLAY** button for the third time.
 - Artist name based on tag information of currently played-back file will be displayed.
- Press the **DISPLAY** button again.
 - Current track number/total tracks and elapsed time will be displayed.
 - Current repeat setting appears only when the Repeat setting is active.
(◁ T: Track repeat/ ▷ A: All (disc) repeat/ ▷ G: Group (folder) repeat).

- When you are playing back a disc in programme or random mode, **PROGRAM** (or **RANDOM**) will be displayed.

- Press the **DISPLAY** button to exit.
 - During programme or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button to exit.

NOTE:

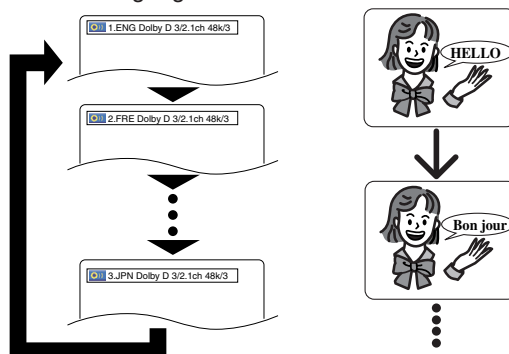
- If the file does not contain tag information, **NOT AVAILABLE** will be displayed.

Audio Language

DVD DivX®

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

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



NOTES:

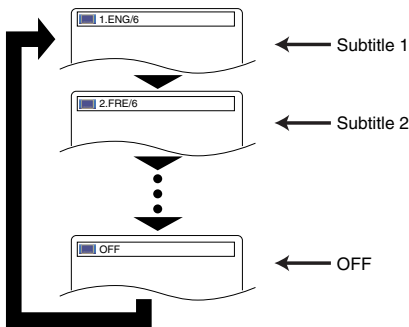
- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Some discs allow to change the Audio Language setting on the disc menu. (Operation varies among discs. Refer to the manual accompanying the disc.)
- For discs with DivX® files, the screen only displays MP3 audio. Other audio sounds will be displayed with "asterisks".
- Pressing the **AUDIO** button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow to change the Audio Language setting on the disc menu).
- If you choose a language that has a three-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 26).
- Audio language selection cannot be made during Dialog Speed (refer to page 17).
- DTS sound is output only from the digital audio outputs.
- If the disc has no audio language, **NOT AVAILABLE** will be displayed.

Subtitle Language

DVD DivX®

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

- Press the **SUBTITLE** button during playback.
- Press the **SUBTITLE** button repeatedly to select your desired subtitle language.
 - The selected language will be displayed on the display bar at the top of the screen.
 - Press the **Cursor** buttons (◀ or ▶) to turn on or off subtitles during playback.



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

NOTES:

- Some discs allow the Subtitle Language setting on the disc menu. (Operation varies among 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 the Subtitle Language setting on the disc menu).
- If your 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 three-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 26).
- If the disc has no subtitle language, NOT AVAILABLE will be displayed.
- For discs with DivX® files, the screen only displays the number of subtitle languages.

Camera Angle

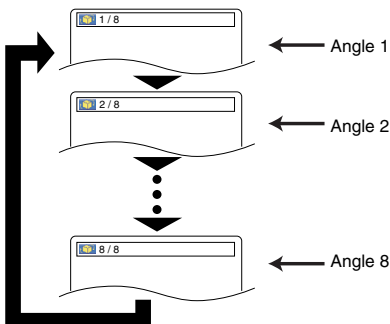
DVD

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the () icon 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 ANGLE ICON is set to OFF in the display menu, the () icon will not appear (refer to page 25).

Virtual Surround

DVD CD VCD MP3 WMA

You can enjoy stereophonic virtual space through your existing 2 channel stereo system.

1 During playback, press the **MODE** button repeatedly until the Virtual Surround setting appears.

2 Press the **ENTER** button to set it 1(Natural effect), 2(Emphasized effect) or OFF.

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

NOTES:

- Select Virtual Surround OFF or lower the volume if the sound is distorted.
- Virtual Surround will not be effective if the sound mode is set to something other than STEREO (for Audio CD or Video CD playback only).
- This function cannot be used during Dialog Speed (refer to page 17).

Stereo Sound Mode

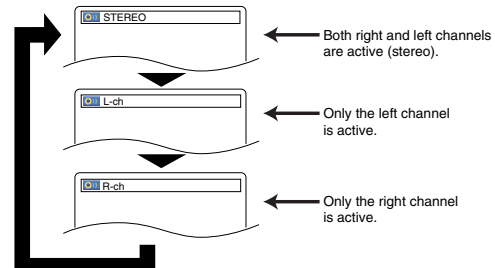
CD VCD

1 Press the **AUDIO** button repeatedly during playback to select your desired sound mode.

STEREO - both right and left channels are active (stereo)

L-ch - only left channel is active

R-ch - only right channel is active



NOTE:

- The STEREO can only be output when playing back DTS CD.

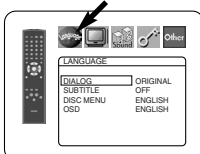
DVD SETUP

In setup menu, QUICK mode, CUSTOM mode and INITIALIZE mode are available (refer to pages 24-26). QUICK mode consists of items of which the setting menus are frequently used, and they are accompanied with **QUICK** mark. You can make all settings in CUSTOM mode.

Language Setting

Language options may not be available on some discs.

- 1 Press the **SETUP** button in stop mode.
- 2 Press the **Cursor** buttons (◀ or ▶) to select **CUSTOM**, then press the **ENTER** button.
 - The 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 an item, then press the **ENTER** button.



DIALOG (Default : ORIGINAL)

- Sets the audio language.

SUBTITLE (Default : OFF)

- Sets the subtitle language.

DISC MENU (Default : ENGLISH)

- Sets the language for DVD Menu.

OSD (Default : ENGLISH) **QUICK**

- Sets the language for the on-screen display.
- 5 Press the **Cursor** buttons (▲ or ▼) to select a language, then press the **ENTER** button.
 - If OTHER is selected for DIALOG, SUBTITLE or DISC MENU, press four-digit number to enter the code for your desired language (refer to the language code list on page 26).
 - Only the languages supported by the disc can be selected.
 - 6 Press the **SETUP** button to exit.

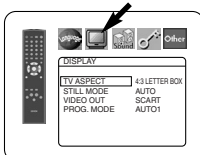
NOTE:

- Language setting for DIALOG and SUBTITLE may not be available on some discs. Then use the **AUDIO** and **SUBTITLE** buttons. Details are on pages 22 and 23.

Display Setting

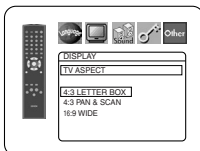
You can change certain aspects of the DVD display screens, on-screen messages and the display panel on the front of the DVD player.

- 1 Press the **SETUP** button in stop mode.
- 2 Press the **Cursor** buttons (◀ or ▶) to select **CUSTOM**, then press the **ENTER** button.
 - The 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 an item, then press the **ENTER** button.



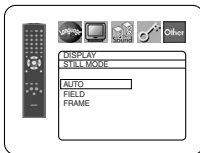
TV ASPECT (Default : 4:3 LETTER BOX) **QUICK**

- Press the **Cursor** buttons (▲ or ▼) to select a setting, then press the **ENTER** button.
- Select 4:3 LETTER BOX. Black bars may appear at the top and bottom of the screen, depending on the proportion of the TV screen.
- Select 4:3 PAN & SCAN for a full height picture with both sides adjusted.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD player.



STILL MODE (Default : AUTO)

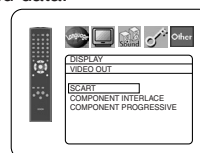
- Press the **Cursor** buttons (▲ or ▼) to select a setting (AUTO, FIELD, or FRAME), then press the **ENTER** button.
- This function allows you to adjust picture resolution and quality in still mode.
- An individual picture on TV screen is called as "frame", which consists of two separate images called as "field". Some pictures may be blurred at the AUTO setting in still mode due to their data characteristics.



- **AUTO**: Automatically selects the best resolution setting (FRAME or FIELD) based on the data characteristics of the pictures.
- **FIELD**: Select FIELD when the pictures are still unstable even if AUTO is selected. FIELD stabilizes the pictures, although the picture quality may become coarse due to the limited amount of data.
- **FRAME**: Select FRAME to display relatively motionless pictures in higher resolution. FRAME improves the picture quality, although it may destabilize the pictures due to simultaneous output of two field data.

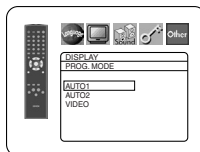
VIDEO OUT (Default : SCART)

- Press the **Cursor** buttons (▲ or ▼) to select a setting (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.
- When VIDEO OUT is COMPONENT PROGRESSIVE, P.SCAN appears on the DVD player's front panel display after you exited the setup screen.
- Refer to page 12 for more details.



PROG. MODE (Default : AUTO1)

- Press the **Cursor** buttons (▲ or ▼) to select a setting (AUTO1, AUTO2, or VIDEO), then press the **ENTER** button.
- This function allows you to select the image output, depending on the base material (video or film) of the recorded DVD images, when VIDEO OUT is set to COMPONENT PROGRESSIVE.
- **AUTO1**: Automatically selects the best image output (AUTO2 or VIDEO) based on the information of data stream.
- **AUTO2**: A combination of the top and bottom fields is output as one-frame image.
- **VIDEO**: Either of top or bottom field is output for one-frame image.



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

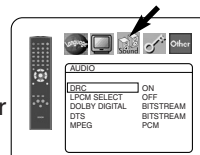
NOTES:

- 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 are used to connect to the TV, a distorted video signal may be output.

Audio Setting

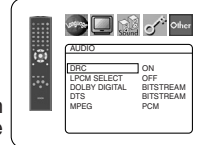
You can change some Audio settings. It only affects during the playback of DVD discs.

- 1 Press the **SETUP** button in stop mode.
- 2 Press the **Cursor** buttons (◀ or ▶) to select **CUSTOM**, then press the **ENTER** button.
 - The CUSTOM mode will appear.
- 3 Press the **Cursor** buttons (◀ or ▶) to select **AUDIO**, then press the **ENTER** button to confirm.
- 4 Press the **Cursor** buttons (▲ or ▼) to select an item, then press the **ENTER** button.



DRC (Dynamic Range Control) (Default : ON)

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

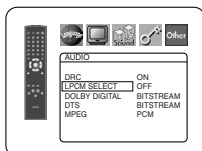


LPCM SELECT (Default : OFF)

- Set to ON when outputting in 48kHz (or 44.1kHz).
- This function is available only on digital outputting of a disc recorded in 96kHz (or 88.2kHz).

When playing disc with copy-right protection

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



DOLBY DIGITAL

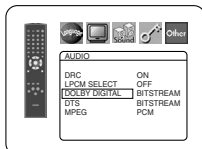
(Default: BITSTREAM) QUICK

- Set to BITSTREAM when the player is connected to a Dolby Digital decoder.

BITSTREAM:

Output by Dolby Digital.

PCM: Convert Dolby Digital to PCM.



DTS

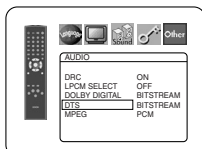
(Default : BITSTREAM) QUICK

BITSTREAM:

Output by DTS sound.
Set to BITSTREAM when the unit is connected to a DTS decoder.

OFF: No DTS sound will be output.

- DTS sound is output only from digital audio outputs.

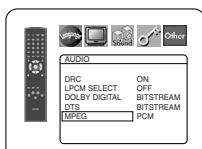


MPEG (Default: PCM) QUICK

BITSTREAM:

Output MPEG sound.
Set to BITSTREAM when the unit is connected to an MPEG decoder.

PCM: Convert MPEG sound to PCM.



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

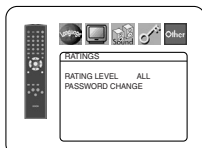
Ratings Control

Ratings Control allows you to set a limit, which prevents your children from viewing inappropriate materials on DVDs. A four-digit password that you establish will give you the control.

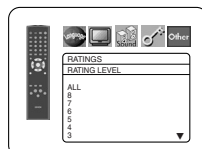
RATING LEVEL

You can set a viewing limit through Rating Level. Playback of the discs will stop if the disc's general rating exceeds the limit you set.

- Press the **SETUP** button in stop mode.
- Press the **Cursor** buttons (◀ or ▶) to select **CUSTOM**, then press the **ENTER** button.
- Press the **Cursor** buttons (◀ or ▶) to select **RATINGS**, then press the **ENTER** button.
- Press the **Numeric** buttons to enter your four-digit password.
 - When doing this for the first time, enter any four-digit number by pressing the **Numeric** 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 rating levels will be set to ALL. Enter a new four-digit password, then press the **ENTER** button.
- Press the **Cursor** buttons (▲ or ▼) to select **RATING LEVEL**, then press the **ENTER** button.



- Press the **Cursor** buttons (▲ or ▼) to select a desired level, then press the **ENTER** button.
- 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:

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

IF YOU FORGET THE PASSWORD

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

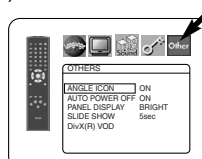
CONTROL LEVELS

- 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.

Others Setting

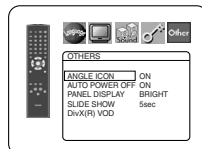
This function allows you to adjust Angle Icon availability, Auto Power off, brightness of the Player's display panel, and slide show mode, and to obtain DivX® registration code.

- Press the **SETUP** button in stop mode.
- Press the **Cursor** buttons (◀ or ▶) to select **CUSTOM**, then press **ENTER**.
 - The custom mode will appear.
- Press the **Cursor** buttons (◀ or ▶) to select **OTHERS**, then press the **ENTER** button to confirm.
- Press the **Cursor** buttons (▲ or ▼) to select an item, then press **ENTER**.



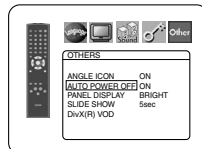
ANGLE ICON (Default : ON)

- Press the **ENTER** button repeatedly to turn **ANGLE ICON** ON or OFF.



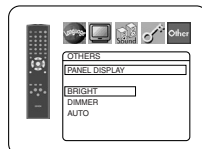
AUTO POWER OFF (Default : ON)

- Press the **ENTER** button repeatedly to turn **AUTO POWER OFF** ON or OFF.
- It will turn off the DVD player automatically after 30 minutes of no use.



PANEL DISPLAY (Default : BRIGHT)

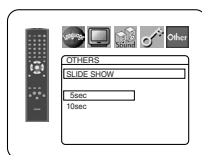
- Press the **Cursor** buttons (▲ or ▼) to select a setting (**BRIGHT**, **DIMMER** and **AUTO**), then press the **ENTER** button.
- When **AUTO** is selected, the display dims only during playback.



DVD SETUP

SLIDE SHOW (Default : 5sec)

- This adjusts the playback speed of the JPEG SLIDE SHOW.
- Press the **Cursor** buttons (▲ or ▼) to select between 5 sec and 10 sec, then press the **ENTER** button.



DIVX(R) VOD

- This player allows you to use the DivX® Video-On-Demand (VOD) services. You can play back the files purchased or rental from the VOD services. You need to have a registration code to purchase or rental VOD files. Please visit www.divx.com/vod for more details.



NOTES:

- You cannot play back the DivX® VOD files obtained with different registration codes on this player.
- You cannot play back the DivX® VOD files, of which rental period has been expired. In such case, press the **MENU** button and select other files that can be played back.
- Some DivX® VOD files are restricted with the limited playable times (you cannot play them back beyond the limit). If your DivX® VOD file has such limit, the playback confirmation screen will appear. Use the **Cursor** button (◀ or ▶) to select YES if you want to play back the file, or to select NO if you do not wish to play it back. Then, press the **ENTER** button to confirm the selection.
- Please send your inquiries regarding the VOD files to DivX®, Inc.

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

Reset to the Default Settings (except for Ratings Control and VIDEO OUT)

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

- Press the **SETUP** button in stop mode.
- Press the **Cursor** buttons (◀ or ▶) to select INITIALIZE, then press the **ENTER** button.
- Press the **Cursor** buttons (▲ or ▼) to select YES, then press the **ENTER** button.
- Press the **SETUP** button to exit.

NOTE:

- If you like to cancel initializing, select NO at step **3**.

Language Code List

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

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

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 centre 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 Authorised Service Centre for inspection and cleaning of the laser optical pickup unit.

Disc Handling

- Use discs which have the following logos on them.
- 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.



MP3



TROUBLESHOOTING GUIDE

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

Problem	Solution	Page
No power	–Check if the AC power cord is properly connected –Unplug the AC cord once, and wait for 5-10 seconds and then plug it in again.	– –
No sound or picture	–Check if the TV is turned on. –Check the video connection. –Check the AUDIO/VIDEO cable connections to the TV. (See Connecting to a TV.) –Check if the VIDEO OUT mode is set correctly.	– 14 12-14 12, 24
Distorted picture	–Sometimes a small amount of picture distortion may appear. This is not a malfunction. –Connect the DVD player directly to the TV. –Check if the VIDEO OUT mode is set correctly.	– 14 12, 24
Completely distorted picture or black/white picture with DVD	–Connect the DVD player directly to the TV. –Make sure the disc is compatible with the DVD player.	14 6
No sound or distorted sound	–Adjust the volume. –Check that the speakers are connected correctly.	– 13
No audio at digital output	–Check the digital connections. –Check the audio settings.	13 24–25
No DTS sound output	–Use a DIGITAL OUT jack when outputting the DTS sound.	13, 25
Picture freezes momentarily during playback	–Check the disc for fingerprints/scratches and clean with a soft cloth wiping from center to edge. –Clean the disc.	27 27
Disc can't be played back	–Clean the disc. –Ensure the disc label is facing up. –Check if the disc is defective by trying another disc. –Cancel the ratings control or change the control level. –Insert a correct disc that can be played back on this player.	27 15 – 25 6
No return to start-up screen when disc is removed	–Reset the player by turning it off, then on again.	–
The DVD player does not respond to the remote control	–Aim the remote control directly at the sensor on the front of the player. –Reduce the distance to the player. –Replace the batteries in the remote control. –Re-insert the batteries with their polarities (+/– signs) as indicated.	8 – 11 11
Buttons do not work or the player stops responding	–To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.	–
The DVD player does not respond to some operating commands during playback	–Operations may not be permitted by the disc. Refer to the instructions of the disc.	6
The DVD player cannot read CDs/DVDs	–Use a commonly available CD/DVD cleaner to clean the lens before sending the DVD player for repair.	27
Angle does not switch	–The angle cannot be switched for DVDs which do not contain multiple angles. In some cases multiple angles are only recorded for specific scenes.	23
Playback does not start when the title is selected	–Check the "RATINGS" setting.	25
The password for rating level has been forgotten	–Enter the default password "4737", then your forgotten password will be cleared.	25

NOTES:

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operating Instruction for details on correct operations.
- Playback from a desired track and random playback are not available during programme playback.
- Some functions are prohibited on some discs.
- When playing back Video CDs with PBC function, some operations (e.g., select and track repeat) cannot be performed. Cancel PBC function temporarily to perform those operations. See page 15.

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