

# DENON

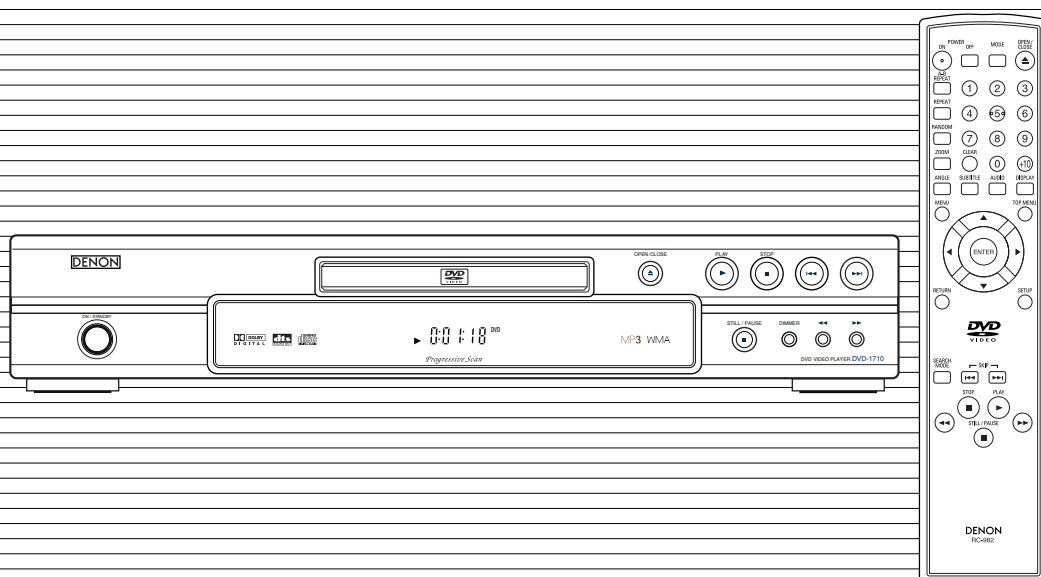
DVD VIDEO PLAYER

# DVD-1710/DVD-555

OPERATING INSTRUCTIONS

MODE D'EMPLOI

INSTRUCCIONES DE OPERACION



**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



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.

#### 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.

## 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:** INSIDE, NEAR THE DECK MECHANISM.

**FCC WARNING-** This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

### RADIO-TV INTERFERENCE

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

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

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

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

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

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

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 it for future reference.

### A NOTE ABOUT RECYCLING

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

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

- Keep the set away from moisture water and dust.
- Never disassemble or modify the set in any way.
- Do not put heavy objects on the AC power cord.
- Keep the AC power cord away from heat appliances.
- Once the AC power cord is damaged be sure to replace with a new one.

# Important Safeguards

- 1) Read Instructions - All the safety and operating instructions should be read before the product is operated.
- 2) Retain Instructions - The safety and operating instructions should be retained for future reference.
- 3) Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
- 4) Follow Instructions - All operating and use instructions should be followed.
- 5) Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6) Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7) Water and Moisture - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8) Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- 9) A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- 10) Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11) Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12) Grounding or Polarization - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 13) Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14) Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.
- 15) Power lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 16) Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17) Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18) Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19) Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - a) When the power-supply cord or plug is damaged,
  - b) If liquid has been spilled, or objects have fallen into the product,
  - c) If the product has been exposed to rain or water,
  - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
  - e) If the product has been dropped or damaged in any way.
  - f) When the product exhibits a distinct change in performance - this indicates a need for service.
- 20) Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 21) Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 22) Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

PORTABLE CART WARNING  
(Symbol provided by RETAC)



S3125A

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## INTRODUCTION

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

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

### About Copyright

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

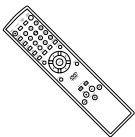
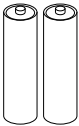
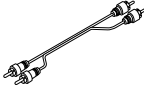


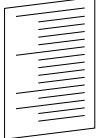
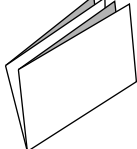
Apparatus Claims of U. S. Patent Nos, 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.

### Notice for the progressive scan outputs

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

### Supplied Accessories

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

Remote control..... 1 	"AA" (R6P) batteries..... 2 	Audio cable ..... 1 	Video cable..... 1 	Operating Instruction .. 1 	Service Station List..... 1 	Warranty Card ..... 1 
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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.

<b>DVD-V</b> :	Description refers to playback of DVD-Video discs. (including DVD-R/RW discs)
<b>CD</b> :	Description refers to playback of Audio CDs.
<b>MP3</b> :	Description refers to playback of discs formatted with MP3.
<b>JPEG</b> :	Description refers to viewing of JPEG discs.
<b>WMA</b> :	Description refers to playback of discs formatted with WMA.

## ABOUT THE DISCS

### Playable Discs


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

Usable discs	Mark (logo)	Recorded signals	Disc Size
DVD-Video (NOTE 1)		Digital video (MPEG2)	12 cm
DVD-R DVD-RW (NOTE 2)			8 cm
CD CD-R CD-RW (NOTE 3)		Digital audio MP3 WMA (NOTE 4) Digital picture (JPEG)	12 cm 8 cm
Picture CD		JPEG	12 cm

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

NOTE 2: Discs that have not been finalized cannot be played. Depending on the disc's recording status, the disc may not be accepted or may not be played normally (the picture or sound may be not be smooth, etc.).

NOTE 3: Some of CD-R/CD-RW discs may be incompatible because of "scratch and stain of disc", "Recording condition", and "Characteristic of Recorder".

NOTE 4:  Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

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

- Some discs include region codes as shown below.



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

- On the following discs, only the sound can be heard (picture cannot be viewed).

CDV  
CD-G

- NEVER play back the following discs. Otherwise, malfunction may result!

DVD-RAM

CD-I

Photo CD

Video CD

DVD with region codes other than 1 or ALL

DVD-ROM for personal computers

CD-ROM for personal computers

- On the following disc, the sound MAY NOT be heard.

Super Audio CD

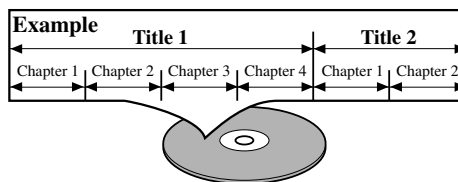
NOTE: Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density Super Audio CD layer cannot be delivered.

- Any other discs without compatibility indications.

### Disc Types

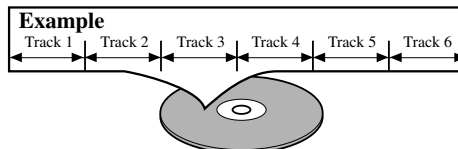
#### [DVD-Video]

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



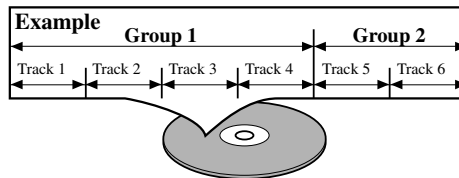
#### [Audio CD]

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



#### [MP3, JPEG, WMA]

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



#### CAUTION:

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

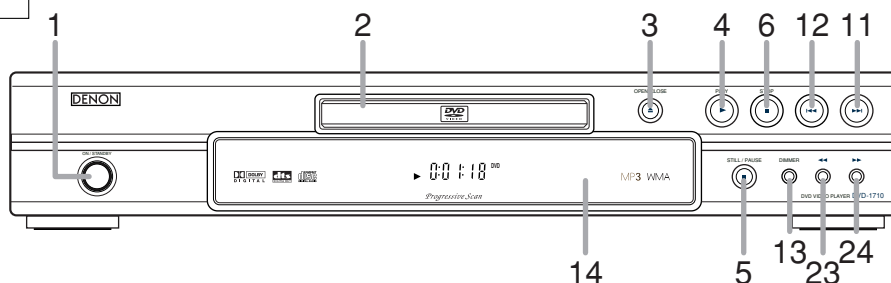
- **Progressive Scan system**  
Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional (525i) television signals.
- **Dolby Digital Sound**  
By hooking this player up to a Multi - Channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital 5.1 channel surround sound as heard in the movie theaters.
- **DTS (Digital Theater System)**  
When this player is connected to the DTS decoder, you can enjoy 5.1channel 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 order of tracks to play them in random order.
- **Program playback for audio CD, MP3, JPEG, and WMA**  
You can program the order of tracks to play them in a desired order.
- **DVD menus in a desired language**  
You can display DVD menus in a desired language, if available on a DVD.
- **Auto standby**  
The power turns off automatically if there is no activity at the player or its remote for more than 35 minutes. (Refer to page 23.)
- **Subtitles in a desired language**  
You can select a desired language for a subtitle if that language is available on a disc.
- **Selecting a camera angle**  
You can select the desired camera angle if a disc contains sequences recorded from different angles.
- **Choices for audio language and sound mode**  
You can select the desired audio language and sound mode if different languages and modes are available on a disc.
- **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 if a loaded disc is DVD-Video, Audio CD, MP3, JPEG, or WMA.
- **Playing an MP3 disc**  
You can enjoy MP3 files which are recorded on CD-R/RW.
- **Direct Search**  
You can search the desired title, chapter, and track with numeric button during playback or in stop mode.
- **On-screen display**  
Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as program playback), on the TV screen using the remote control.
- **Dimmer**  
The brightness of the display can be varied.
- **Screen Saver**  
The screen saver program starts if there is no activity at the player or its remote for more than 5 minutes. The brightness of the display is darkened by 75%. The program is deactivated when there is any activity.
- **Picture Control**  
Picture Control adjusts among Brightness, Contrast, Color, Gamma Correction and Sharpness of the specific display.
- **Search**  
Chapter search: Search for the chapter designated by user is possible.  
Title search: Search for the title designated by user is possible.  
Track search: Search for the track designated by user is possible.  
Time search: Search for the time designated by user is possible.
- **Repeat**  
Chapter: Repeated playback of the chapter of the disc being played is possible.  
Title: Repeated playback of the title of the disc being played is possible.  
Track: Repeated playback of the track of the disc being played is possible.  
All: Repeated playback is possible. (exclude DVD-Video)  
A-B: The part between A and B designated by user is possible.  
Group: Repeated playback of the folder of the MP3/JPEG/WMA disc being played is possible.
- **Zoom**  
2-time or 4-time magnified screen can be displayed.
- **Marker**  
The part designated by user can be called back.
- **Resume Play**  
User can resume playback from the point at which the play has been stopped even if the power is turned off.
- **Component Video Out Jacks**  
Jacks located on the back of the DVD Player which are used to send high-quality video to a TV via Component Video In Jacks.
- **Bit rate indication**
- **DRC (Dynamic Range Control)**  
You can control the range of sound volume.
- **Displaying a JPEG picture**  
Kodak Picture CDs can be played. Still images stored in JPEG format on CD-R/RW can also be played.
- **Reproducing WMA data**  
You can enjoy WMA files which are recorded on CD-R/RW.

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

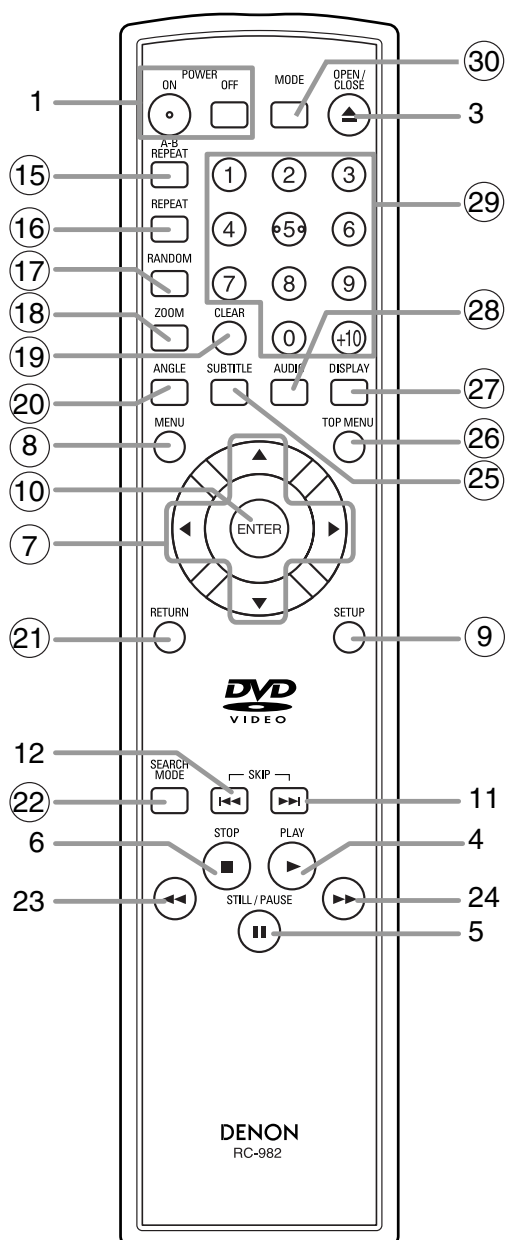
**“WMA” (Windows Media Audio) is a new audio codec developed by Microsoft® in the United States of America.**

## FUNCTIONAL OVERVIEW

### FRONT PANEL



### REMOTE CONTROL



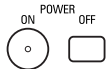











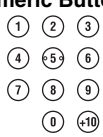

1. **ON/STANDBY, (POWER ON/OFF) Buttons** [page 15]
2. **Disc loading tray**
3. **OPEN/CLOSE Button** [page 15]
4. **PLAY Button** [page 15]
5. **STILL/PAUSE Button** [page 15]
6. **STOP Button** [page 15]
7. **Cursor Buttons** [page 15]  
Use when making settings while watching the display on a TV screen.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

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













**Tour of the remote control**

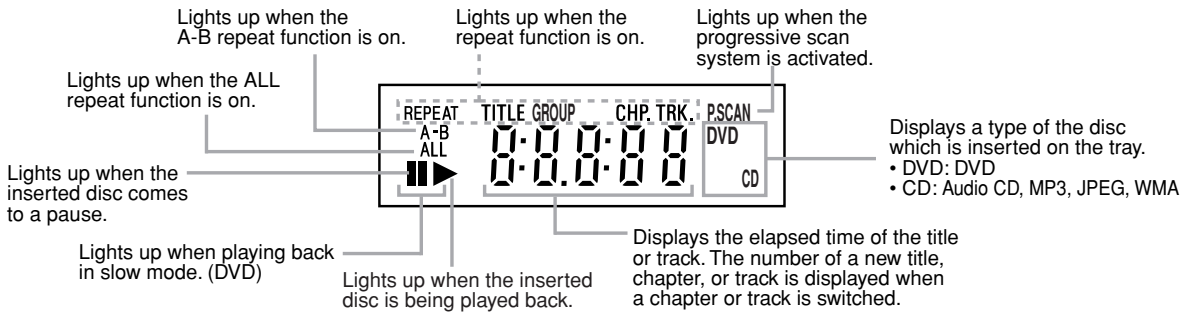
Buttons on remote control work in different ways for DVD and CD :  
Refer to the following table for correct use.

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

**Tour of the remote control**

	<b>DVD</b>	<b>CD</b>
<b>MENU Button</b> 	<ul style="list-style-type: none"> <li>To call up the Menu on a disc</li> </ul>	<p>—</p>
<b>TOP MENU Button</b> 	<ul style="list-style-type: none"> <li>To call up the Top Menu on a disc</li> </ul>	<p>—</p>
<b>ENTER, Cursor Buttons</b> 	<ul style="list-style-type: none"> <li>Moves the cursor and determines its position.</li> </ul>	<ul style="list-style-type: none"> <li>Moves the cursor and determines its position.</li> </ul>
<b>RETURN Button</b> 	<ul style="list-style-type: none"> <li>To return to the previous operation in the DVD setup menu.</li> </ul>	<ul style="list-style-type: none"> <li>To return to the previous operation in the DVD setup menu.</li> </ul>
<b>SETUP Button</b> 	<ul style="list-style-type: none"> <li>To call up the DVD player's Setup menu.</li> </ul>	<ul style="list-style-type: none"> <li>To call up the DVD player's Setup menu.</li> </ul>
<b>SKIP Buttons</b> 	<ul style="list-style-type: none"> <li>To skip Chapters.</li> </ul>	<ul style="list-style-type: none"> <li>To skip Tracks.</li> </ul>
<b>SEARCH Buttons</b> 	<ul style="list-style-type: none"> <li>Allows you to search forward/backward through a disc.</li> </ul>	<ul style="list-style-type: none"> <li>Allows you to search forward/backward through a disc.</li> </ul>
<b>STOP Button</b> 	<ul style="list-style-type: none"> <li>To stop playback.</li> </ul>	<ul style="list-style-type: none"> <li>To stop playback.</li> </ul>
<b>PLAY Button</b> 	<ul style="list-style-type: none"> <li>To begin disc play.</li> </ul>	<ul style="list-style-type: none"> <li>To begin disc play.</li> </ul>
<b>STILL/PAUSE Button</b> 	<ul style="list-style-type: none"> <li>To pause disc play.</li> <li>Advances playback one frame at a time.</li> </ul>	<ul style="list-style-type: none"> <li>To pause disc play.</li> </ul>

Front panel display

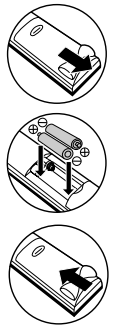


Displays During Operation

	Power on
	No disc inserted or cannot read
	Tray open
	Tray closed
	Loading the Disc
	Power off

Loading the Batteries

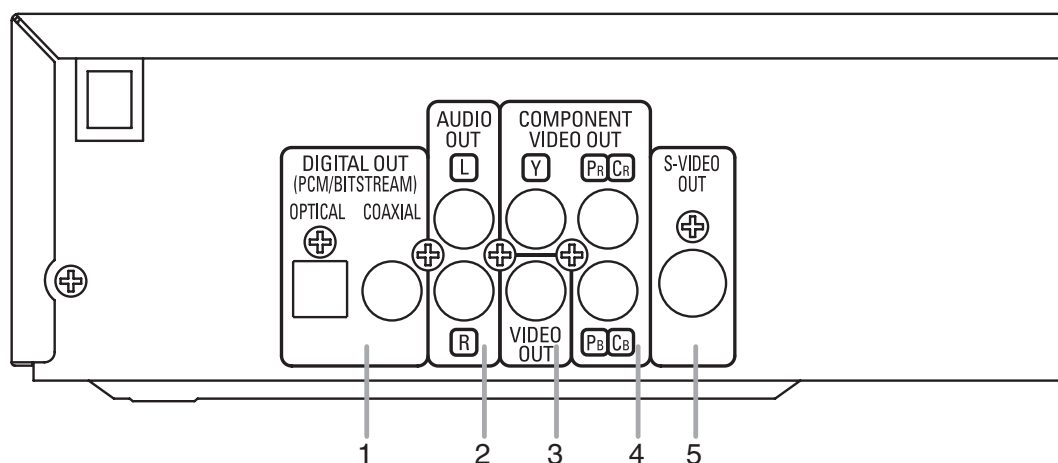
1. Open the battery compartment cover.
2. Insert two "AA" (R6P) batteries, with each one oriented correctly.
3. Close the cover.



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

### Description - rear panel



#### 1. DIGITAL OUT JACKS

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

#### 2. 2ch AUDIO OUT JACKS

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

#### 3. VIDEO OUT JACK

Use a video cable to connect one of the 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 Cr/P<sub>r</sub>, C<sub>b</sub>/P<sub>b</sub> and Y video. Along with S-Video, Component Video provides the best picture quality.

#### 5. S-VIDEO OUT JACK

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

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

- If your TV is compatible with progressive scanning (525p/480p), connect the TV to the Component Video jacks of the DVD player and set "PROGRESSIVE" to "ON" in the display setting. Next, set your TV to the progressive scan mode. Refer to page 23 for instructions on changing the display setting.
- If your TV is not compatible with progressive scanning, set "PROGRESSIVE" to "OFF".
- Use a commercially available adaptor if the video input jacks of your TV or 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 (525i/480i) television signals.

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

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

## CONNECTIONS

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

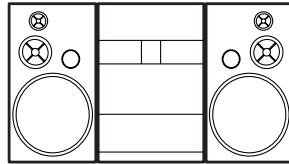
If using this DVD player to playback a DVD in a Dolby Digital 5.1 channel surround or DTS surround format, the DVD player outputs a Dolby Digital or DTS data stream from its OPTICAL or COAXIAL DIGITAL OUT jacks. By hooking the player up to a Dolby Digital or DTS decoder, you can enjoy more convincing, realistic ambience with powerful and high-quality surround sound of a professional standard which can be heard in movie theaters. Use an audio optical 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.

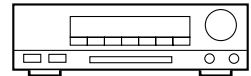
### Connection to an audio system

#### Method 1



Stereo system

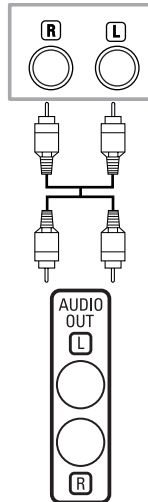
#### Method 2



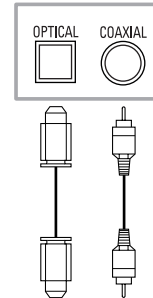
AV amplifier with a built in decoder (AV control center),  
Dolby Digital decoder,  
DTS decoder,  
MD deck or DAT deck

### AUDIO

Audio Input Jacks



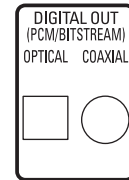
Digital Audio Input Jacks



### DVD

Analog Audio Out

Digital Audio Out



- **Method 1** DVD Player + Stereo system

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

### NOTES (for Method 2 only):

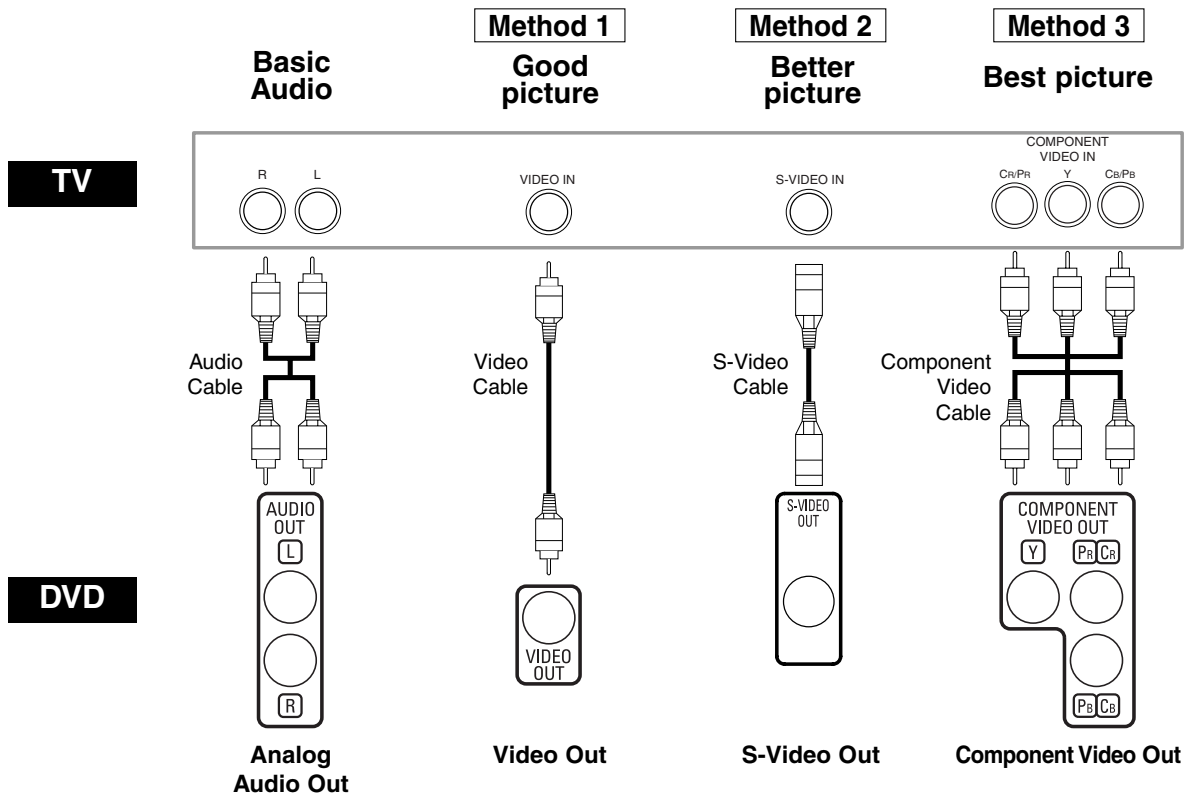
- When using an AV amplifier with a built in decoder (AV control center), Dolby Digital, or DTS decoder as shown in the Method 2, set "DOLBY DIGITAL" or "DTS" to "ON" accordingly for audio output in the setup mode (Refer to page 24). Set it to "OFF" for the decoder that is not used currently. Playing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

### Optical cable (not supplied)

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

## CONNECTIONS

### Connection to a TV (for video)



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

#### NOTES:

- Connect the DVD player directly to a TV. If the A/V cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- S-Video output connector

The video signals are divided into 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 the this product's S-Video output connector using a commercially available S-Video connection cord.

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

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

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

#### NOTE

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

## PLAYING A DISC

## Basic Playback

DVD-V CD MP3 JPEG WMA

## Getting started

- Turn on the power of the TV, amplifier and any other components which are connected to the DVD player.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.

**1** Press the **POWER ON** button.  
• "P-ON" will appear briefly on the display panel.

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

**3** Place the disc in the tray, with the label facing up.

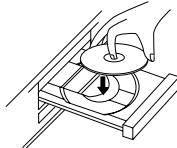
**4** Press the **PLAY** button.

- The tray will close automatically, then playback will start from the first chapter or track of the disc. If the playback does not start automatically, press the **PLAY** button.
- When you playback the DVD with a title menu, it may appear on the screen. In this case, refer to "Title menu".

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

## NOTES:

- A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc.
- With DVDs that use some titles for playback program signals, playback may start from the second title, or it may skip these titles.
- During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- The operation may vary when you playback DVDs with disc menu. Refer to the manual accompanying the disc for details.



## General Features

DVD-V

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

## NOTE:

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

## 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**)

- "Bright" has been selected as the factory default.

## NOTES:

- The brightness of the front panel display can be adjusted from the **SETUP** menu. Details are on page 23.
- When you turn on the power next time, the brightness of the front panel display will be the settings in **SETUP** menu.

## Still / Pause

DVD-V CD MP3 JPEG WMA

**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 23.)

## Disc Menu

DVD-V

**1** Press the **MENU** button.

- The DVD main menu will appear.

**2** If the feature is not available,  symbol may appear on the TV screen.

**3** If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.


**4** Press the **Cursor** buttons (▲/▼/◀/▶) to select an item, and the **ENTER** button to confirm selection.

## Title Menu

DVD-V

**1** Press the **TOP MENU** button.

- The title menu will appear.

**2** If the feature is not available,  symbol may appear on the TV screen.

**3** Press the **Cursor** buttons (▲/▼/◀/▶) to select an item, and the **ENTER** button to confirm selection.

- Playback will begin at the selected Title.

## CALLING UP A MENU SCREEN DURING PLAYBACK

DVD-V

- Press the **MENU** button to call up the DVD main menu.
- Press the **TOP MENU** button to call up the title menu.

## NOTE:

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

## PLAYING A DISC

### Step by Step Playback

DVD-V

- 1 During playback, press the **STILL/PAUSE** button.
  - Playback will pause and sound will be muted.



- 2 The disc advances by one 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 23.)

### Picture Control

DVD-V

Picture Control adjusts among 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 item.
- 3 Press the **ENTER** button or the **Cursor** button (◀ or ▶) to adjust desired item.
  - -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.



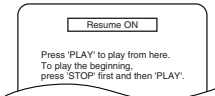
#### NOTES:

- The setting display will disappear in 10 seconds of no use.
- This function cannot be used during Dialog Speed. (Refer to page 22.)

### Resume

DVD-V CD MP3 JPEG WMA

- 1 During playback, press the **STOP** button.
  - Resume message will appear on the TV screen.



- 2 Press the **PLAY** button, playback will resume from the point at which playback was stopped.
  - To cancel resume, press the **STOP** button twice.

#### NOTES:

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

### Fast Forward / Reverse Search

DVD-V CD MP3 WMA

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

#### ◀◀ Button



#### ▶▶ Button

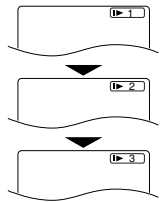


- For audio CDs, the approximate speed is x16.
  - For MP3 and WMA, the approximate speed is x8.
- 2 To return to normal playback, press the **PLAY** button.

### Slow Forward / Slow Reverse

DVD-V

- 1 During playback, press the **STILL/PAUSE** button.
- 2 Press the ◀◀ or ▶▶ button.
  - Slow motion playback will begin and sound will be muted.
- 3 Press the ◀◀ or ▶▶ button repeatedly to select the required speed.
  - Slow forward or reverse speed is different depending on the disc. Approximate speed is 1 (1/16), 2 (1/8), and 3 (1/2).
- 4 To return to normal playback, press the **PLAY** button.



#### NOTE:

- Set "STILL MODE" to "FIELD" on the Display menu if pictures in the slow playback mode are blurred. (Refer to page 23.)

### Zoom

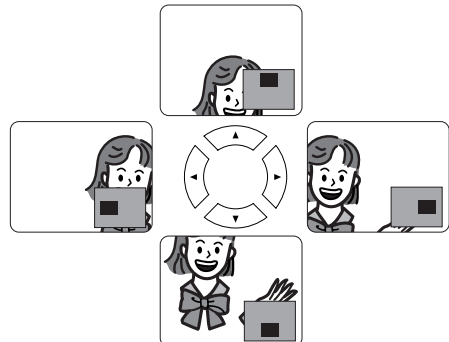
DVD-V JPEG

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

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



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



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

#### NOTES:

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

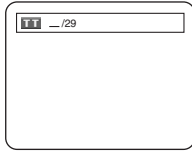


Title / Chapter Search

DVD-V

By using the SEARCH MODE button

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



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

By using the SKIP buttons ◀◀▶▶

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

Track Search

CD MP3 JPEG WMA

There are three ways to begin playback on an Audio CD, MP3, JPEG or WMA disc at a specific Track.

By using the Numeric buttons

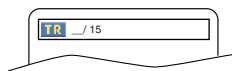
1 Press the **Numeric** buttons to enter the desired Track number.

- Playback will start at the selected track.
- For single digit tracks (1-9), press a single number (eg. track 3, press 3).
- To play track 26, press +10, 2, 6 on the **Numeric** button.

By using the SEARCH MODE button

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

- Playback will start at the selected track.

By using the SKIP buttons ◀◀▶▶

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

- Track number will appear briefly on the front panel display.
- If any **SKIP** button is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

NOTE:

- The **SKIP ◀◀▶▶** buttons are not available when playback is stopped.

Time Search

DVD-V CD

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

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



- Playback will start at the specified time.
- For Time Search, "0" appears automatically when there is no need to enter a number. For example, "0:0:\_" appears in the Time Search screen if the total time of the disc is less than 10 minutes.

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

Repeat

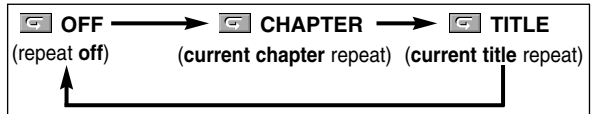
- The **REPEAT** button is available only during playback.

REPEAT TITLE / CHAPTER

DVD-V

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

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



NOTES:

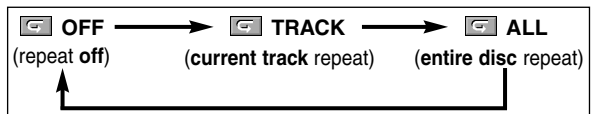
- The Repeat Title/Chapter setting will be cleared when moving to other title or chapter.
- Repeat playback does not function during A-B repeat playback.
- Repeat Title/Chapter is not available with some scenes.

REPEAT TRACK / GROUP / ALL

CD

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

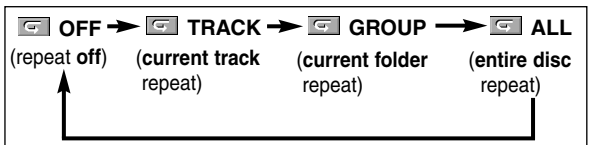
- The repeat mode changes as described below every time you press the button.



NOTES:

- The Repeat Track setting will be cleared when moving to other track.
- Repeat playback does not function during A-B repeat playback.

MP3 JPEG WMA



NOTE:

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

**A-B REPEAT**

DVD-V CD

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

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

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

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

**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).
- A-B Repeat is not available with some scenes in DVD.
- To cancel the A point which was set, press the **CLEAR** button.
- A-B Repeat playback does not function during title, chapter, track or all repeat playback.

**Program Playback (CD)**

CD

You can determine the order in which tracks will play.

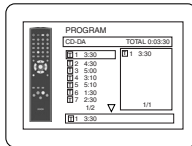
**1** In stop mode, press the **MODE** button.

- The PROGRAM 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 program.

**3** Press the **PLAY** button to play the programmed tracks.



**NOTES:**

- Press the **STOP** button once and then the **PLAY** button again, playback will restart from the point where the **STOP** button was pressed. (Program continued)
- Press the **STOP** button twice and then the **PLAY** button again, playback will restart from the first track in the usual way. Your programs are still stored until either the disc tray is open or power is turned off.
- Up to 99 programs can be entered.
- To erase all programs at once, select ALL CLEAR at the bottom of the list at step **2**.
- To repeat the current track in the program, press the **REPEAT** button repeatedly until **TRACK** appears during playback. To repeat the entire program, press the **REPEAT** button repeatedly until **ALL** appears during playback.
- Refer to page 20 for "Program Playback" of MP3, WMA, and JPEG.
- If eight or more tracks were in a program, use the **SKIP** button ◀◀ or ▶▶ to see all the tracks.

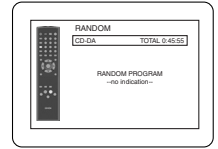
**Random Playback (CD)**

CD

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

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

- The RANDOM screen will appear.



**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.
- Refer to page 20 for "Random Playback" of MP3, WMA, and JPEG.

**MP3 / JPEG / WMA Playback**

MP3 JPEG WMA

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

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

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

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

**NOTES:**

- Folders are known as Groups; files are known as Tracks.
- A symbol of "G" is shown on the top of the group name.
- A symbol of "M" is shown on the top of MP3 files.
- A symbol of "J" is shown on the top of JPEG files.
- A symbol of "W" is shown on the top of WMA files.
- If there are none than eight tracks, a down arrow "▼" appears on the screen. Use the **Cursor** buttons (▲ or ▼) to see all the tracks.
- Maximum of 255 folders can be recognised.
- Maximum of 512 files can be recognised.
- Up to 8 hierarchies can be created.
- If no MP3, JPEG or WMA files are found in the group, the group is not displayed.
- The DVD player can reproduce data recorded as per ISO 9660 Level 1, Level 2 or Joliet on the disc.
- It can also run a disc on which data is recorded in a multi-session.
- For more details of recording systems, refer to the instruction manual for the CD-R / CD-RW drive or the writing software.

## PLAYING A DISC

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

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

Applicable JPEG file		Remarks
Size of image	Upper limit: 6300x5100 dots Lower limit: 32x32 dots	• A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen.

Applicable WMA file		Remarks
Sampling frequency	44.1kHz 48kHz	• Those frequencies are applicable to WMA version 9.
Bit rate	48–192kbps	• Ensure that the copyright function is set to off when preparing a WMA disc.
Type	WMA version 9	• A prohibition “disable” symbol will appear if the user attempts to run a non-reproducible file such as copyright-protected. • Recorded in 5.1 channel format cannot be played back.

### Information on MP3, JPEG and WMA discs

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

### Kodak Picture CD

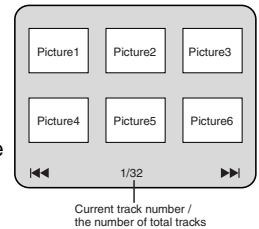
The DVD player can also run JPEG files stored on Kodak Picture CDs. You can enjoy picture images on the television set by playing back the Picture CDs.

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

#### 1 Press the **MENU** button.

Kodak Picture CD menu appears.

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



#### 2 Press the **Cursor** buttons (▲ / ▼ / ◀ / ▶), select a desired track to be played, then press the **PLAY** or **ENTER** button.

- If a Kodak Picture CD file is selected, an image will be played back from the selected track and go to the next one in turn.

#### 3 Press the **STOP** button, to stop playback.

### Notes on JPEG and Kodak Picture CD:

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

### Notes on WMA:

- The DVD player can reproduce data recorded as ISO 9660 level 2 with 31 characters file name included punctuation marks. The name of file can be displayed in up to 25 characters.
- Maximum of 8 subfolders can be recognised.
- Maximum of 255 folders can be recognised.
- Maximum of 512 files can be recognised.
- It can also be displayed tag information of WMA at least 64 characters.
- For a file name with an extension of Joliet as Unicode format, up to 64 characters can be recognised.

## Slide Show Mode

## JPEG

You can switch to the slide show mode during playback.

- Press the **MODE** button during playback.
  - The slide show mode screen will appear.
  - The slide show mode cannot be switched when it is stopped, or from the file list screen or the Picture CD menu screen.
- Press the **ENTER** button.
  - The slide show mode will change.
    - CUT IN/OUT:** The entire image appears in one time.
    - FADE IN/OUT:** The image appears gradually and then disappears.
- Press the **MODE** button to exit.

## On-Screen Information

## MP3 JPEG

You can check information on the current file.

- Press the **DISPLAY** button.
  - The name of the file currently in play will be displayed.
- Press the **DISPLAY** button to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.
  - ◁ will be displayed when the repeat play has been selected.
    - ◁ T - indicates Track repeat
    - ◁ G - indicates Group (folder) repeat
    - ◁ A - indicates Disc repeat
- Press the **DISPLAY** button to exit.
  - During program or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button to exit.

## WMA

You can check information on the current file.

- Press the **DISPLAY** button.
  - The name of the file currently in play will be displayed.
- Press the **DISPLAY** button.
  - Title name based on tag information currently in play will be displayed.
- Press the **DISPLAY** button.
  - Artist name based on tag information currently in play will be displayed.
- Press the **DISPLAY** button to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.
  - ◁ will be displayed when the repeat play has been selected.
    - ◁ T - indicates Track repeat
    - ◁ G - indicates Group (folder) repeat
    - ◁ A - indicates Disc repeat
- Press the **DISPLAY** button to exit.
  - During program or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button to exit.

## NOTE:

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

## Program Playback (MP3/JPEG/WMA)

## MP3

## JPEG

## WMA

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

- In stop mode, press the **MODE** button.
  - The PROGRAM screen will appear.
- Press the **Cursor** buttons (▲ or ▼) to select a group, then press the **ENTER** button.
  - A track selection screen appears.
- Press the **Cursor** buttons (▲ or ▼) to select a track, then press the **ENTER** button to save it in a program.
  - Press the **CLEAR** button to erase the incorrect input.
  - The programmed track is displayed in the right-hand screen.
  - If the entire program cannot be displayed at once on the screen, "▼" appears to go to the next page.
  - Pressing the ◀ button will show a list of folders that belong to the one-level upper hierarchy than the currently selected folder.
- Press the **PLAY** button to start programmed playback.
  - Programmed play starts.

## NOTES:

- Press the **CLEAR** button, and the last-programmed entry will be deleted.
- To erase all the programmed tracks at once, select ALL CLEAR at the bottom of the list at step 2.
- Press the **RETURN** button, and the STOP screen will show up with the program contents in memory.
- Press the **STOP** button once and then press the **PLAY** button, playback will restart from the beginning of the track being played previously. (program continued.)
- Press the **STOP** button twice and then the **PLAY** button again, playback will restart from the first track in the usual way. Your programs are still stored until either the disc tray is open or power is turned off.
- Up to 99 tracks can be set in a program.
- If a disc is inserted that contains mixed MP3, JPEG and WMA files, program setting allows 99 tracks for combination of MP3, JPEG and WMA files.
- If eight or more tracks were in a program, use **SKIP** button ◀◀ or ▶▶ to see all the tracks.

## Random Playback (MP3/JPEG/WMA)

## MP3

## JPEG

## WMA

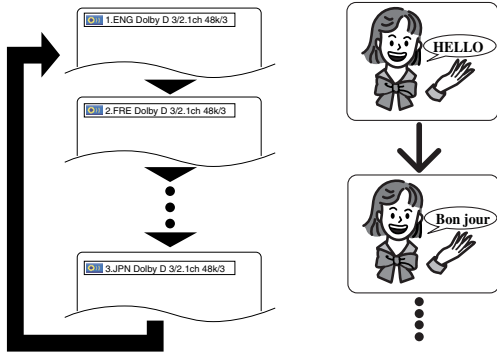
- In stop mode, press the **RANDOM** button.
  - The RANDOM screen will appear.
- Press the **PLAY** button to play the tracks in random order.
  - Random play starts.
  - For a disc containing mixed MP3, JPEG and WMA files, random play of those files will be performed.

**Audio Language**

**DVD-V**

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

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



**NOTES:**

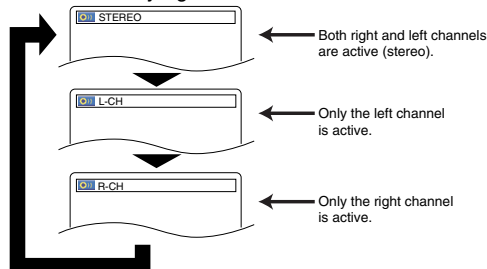
- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Some discs allow to change audio language setting on the disc menu. (Operation varies between discs. Refer to the manual accompanying the disc.)
- Pressing the **AUDIO** button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow to change audio language setting on the disc menu).
- If you choose a Language that has a 3-letter language code, the code will be displayed every time you change the Audio language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 25.)
- Audio language selection cannot be made during Dialog Speed. (Refer to page 22.)

**Stereo Sound Mode**

**CD**

- 1 Press the **AUDIO** button repeatedly during playback to select between STEREO, L-CH or R-CH.

STEREO - both right and left channels are active (stereo)  
 L-CH - only left channel is active  
 R-CH - only right channel is active



**NOTES:**

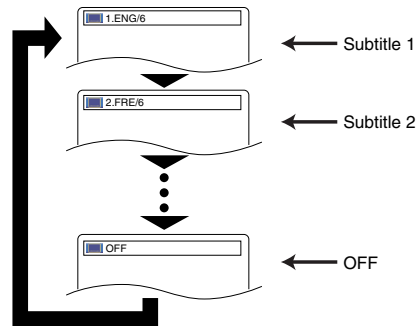
- If the Virtual Surround setting is ON, the sound mode will be fixed to STEREO.
- Stereo sound mode cannot be changed when playing DTS -CD.

**Subtitle Language**

**DVD-V**

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

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



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

**NOTES:**

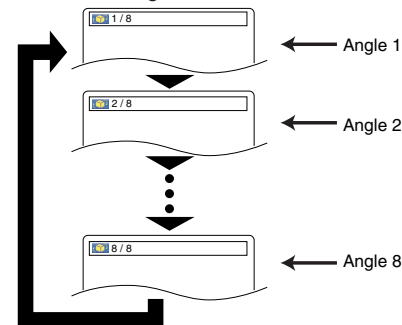
- Some discs allow subtitle language setting on the disc menu. (Operation varies between discs. Refer to the manual accompanying the disc.)
- Pressing the **SUBTITLE** button may not work on some DVDs with multiple subtitle languages (e.g. DVDs which allow subtitle language setting on the disc menu).
- If the desired language is not shown after pressing the **SUBTITLE** button several times, the disc does not have subtitles in that language.
- If you choose a Language that has a 3-letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 25.)
- If the disc has no subtitle language, 'NOT AVAILABLE' will be displayed.

**Camera Angle**

**DVD-V**

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

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



**NOTE:**

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

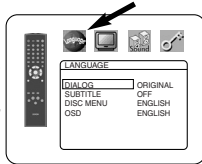


In Setup menu, QUICK mode, CUSTOM mode and INITIALISE mode (Refer to pages 23 and 24) are available. QUICK mode consists of the setting menus often needed, and you can make all settings required in CUSTOM mode. You can make the settings of the items with **QUICK** mark in QUICK mode.

### Language Setting

Language options are not available with some discs.

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



#### 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 setting, then press the **ENTER** button.
    - If OTHER is selected in the DIALOG, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to the language code list on page 25).
    - Only the languages supported by the disc can be selected.
  - 6 Press the **SETUP** button to exit.

#### NOTE:

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

### Display Setting

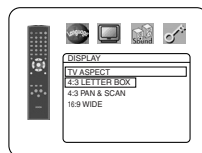
You can change certain aspects of the DVD display screens, on-screen messages and the display panel on the front of the DVD player.

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



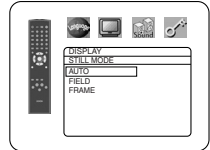
#### TV ASPECT (Default : 4:3 LETTER BOX) **QUICK**

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



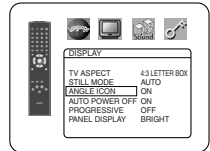
#### STILL MODE (Default : AUTO)

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



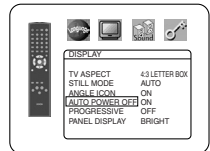
#### ANGLE ICON (Default : ON)

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



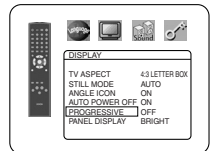
#### AUTO POWER OFF (Default : ON)

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



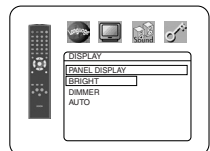
#### PROGRESSIVE (Default: OFF)

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



#### PANEL DISPLAY (Default : BRIGHT)

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



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

#### NOTE:

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

## Audio Setting

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

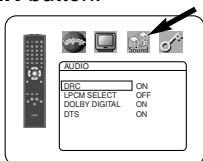
**1** Press the **SETUP** button in STOP mode.

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

- CUSTOM mode will appear.

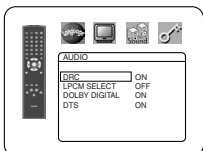
**3** Press the **Cursor** buttons (◀ or ▶) to select **AUDIO**, then the **ENTER** button to confirm.

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



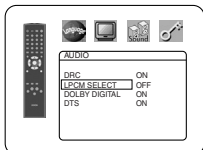
### DRC (Dynamic Range Control) (Default : ON)

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



### LPCM SELECT (Default : OFF)

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

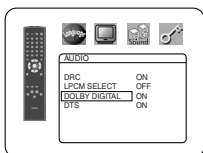


When playing disc with copy-right protection

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

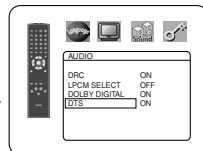
### DOLBY DIGITAL (Default : ON) QUICK

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



### DTS (Default : ON) QUICK

- ON: Output by DTS sound Set to ON when the unit is connected to DTS decoder.
- OFF: No DTS sound will be output.



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

## Ratings Control

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

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

### RATING LEVEL

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

**1** Press the **SETUP** button in STOP mode.

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

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

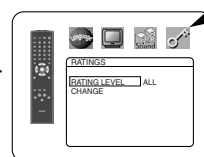
**4** Press the **Numeric** buttons to enter your 4-digit password.

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



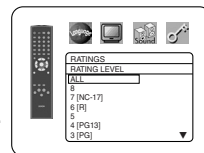
- If you forget the password, press **4, 7, 3, 7**. The original password will be cleared and parental levels will be set to "ALL". Enter a new 4-digit password, then press the **ENTER** button.

**5** Press the **Cursor** buttons (▲ or ▼) to select **RATING LEVEL**, then press the **ENTER** button.



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

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



### NOTE:

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

### To Change the Password:

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

### IF YOU FORGET THE PASSWORD

**1** Press **4, 7, 3, 7** at step **4**.

- Password will be cleared and rating level will be set to ALL.

**2** Repeat steps **5-7** to re-establish the parental lock.

### CONTROL LEVELS

- **ALL**  
Parental lock is cancelled.
- **Level 8**  
DVD software of any grade (adult/general/children) can be played back.
- **Levels 7 to 2**  
Only DVD software intended for general use and children can be played back.
- **Level 1**  
Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

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

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

**1** Press the **SETUP** button in STOP mode.

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

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

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

### NOTE:

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



## DVD SETUP

Language	Code	Language	Code	Language	Code	Language	Code
<b>A-B</b>		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		
Arabic	4764	Guarani	5360	Mongolian	5960	Tagalog	6658
Armenian	5471	Guarati	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			Telugu	6651
Bashkir	4847	Hungarian [HUN]	5467	<b>O-R</b>		Thai	6654
Basque	5167			Occitan	6149	Tibetan	4861
Bengali;Bangla	4860	<b>I-K</b>		Oriya	6164	Tigrinya	6655
Bhutani	5072	Icelandic [ICE]	5565	Oromo(Afan)	6159	Tonga	6661
Bihari	4854	Indonesian	5560	Panjabi	6247	Tsonga	6665
Bislama	4855	Interlingua	5547	Pashto;Pushto	6265	Turkish [TUR]	6664
Breton	4864	Interlingue	5551	Persian	5247	Turkmen	6657
Bulgarian	4853	Inupiak	5557	Polish	6258	Twi	6669
Burmese	4853	Irish [IRI]	5347	Portuguese [POR]	6266		
Byelorussian	5971	Italian [ITA]	5566	Quechua	6367	<b>U-Z</b>	
	4851	Japanese [JPN]	5647	Rhaeto-Romance	6459	Ukrainian	6757
<b>C-E</b>		Javanese	5669	Romanian [RUM]	6461	Urdu	6764
Cambodian	5759	Kannada	5760	Russian [RUS]	6467	Uzbek	6772
Catalan	4947	Kashmiri	5765			Vietnamese	6855
Chinese [CHI]	7254	Kazakh	5757	<b>S</b>		Volapuk	6861
Corsican	4961	Kinyarwanda	6469	Samoa	6559	Weish	4971
Croatian	5464	Kirghiz	5771	Sangho	6553	Welsh	6961
Czech	4965	Kirundi	6460	Sanskrit	6547	Wolof	7054
Danish [DAN]	5047	Korean [KOR]	5761	Scots Gaelic	5350	Xhosa	5655
Dutch [DUT]	6058	Kurdish	5767	Serbian	6564	Yiddish	5655
English [ENG]	5160			Serbo-Croatian	6554	Yoruba	7161
Esperanto	5161	<b>L-N</b>		Sesotho	6566	Zulu	7267
Estonian	5166	Laothian	5861	Setswana	6660		
<b>F-H</b>		Latin	5847	Shona	6560		
Faroeese	5261	Latvian;Lettish	5868	Sindhi	6550		
Fiji	5256	Lingala	5860	Singhalese	6555		
Finnish [FIN]	5255	Lithuanian	5866	Siswat	6565		
French [FRE]	5264	Macedonian	5957	Slovak	6557		
		Malagasy	5953	Slovenian	6558		

If you choose a Language that has a 3-letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 21. If you choose any other languages, '---' will be displayed instead. (3-letter language code is written in bracket.)

## MAINTENANCE

### Cleaning the Cabinet

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

### Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzene, 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 Center for inspection and cleaning of the laser optical pickup unit.

### Disc Handling

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



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

- Used up batteries do not belong in the dust bin.
- You can dispose of them at a collection point for used up batteries or special waste. Contact your council for details.

## TROUBLESHOOTING GUIDE

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

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

### NOTES:

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operating Instruction for details on correct operations.
- Playback from a desired track and random playback are not available during program playback.
- Some functions are prohibited on some discs.

## SPECIFICATIONS

### SIGNAL SYSTEM

NTSC colour

### APPLICABLE DISCS

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

### S-VIDEO OUTPUT

Y output level: 1Vp-p (75Ω/ohms)

C output level: 0.286Vp-p

Output connectors: S connectors, 1 set

### VIDEO OUTPUT

Output level: 1Vp-p (75Ω/ohms)

Output connector: Pin jacks, 1 set

### COMPONENT OUTPUT

Y output level: 1Vp-p (75Ω/ohms)

Pb/Cb output level: 0.7Vp-p (75Ω/ohms)

Pr/Cr output level: 0.7Vp-p (75Ω/ohms)

Output connector: Pin jacks, 1 set

### AUDIO OUTPUT

Output level: 2Vrms

2 channel (L, R) output connector: Pin jack, 1 set

### AUDIO OUTPUT PROPERTIES

- (1) Frequency response
  - 1 DVDs (linear PCM) : 4Hz to 22kHz (48 kHz sampling)
  - : 4Hz to 44kHz (96 kHz sampling)
  - 2 CDs : 4Hz to 20kHz
- (2) S/N ratio : 115dB
- (3) Total harmonic distortion : 1kHz CD: 0.004%
- (4) Dynamic range : DVD: 100dB  
                                  CD: 98dB

### DIGITAL AUDIO OUTPUT

Optical digital output: Optical connector, 1 set

Coaxial digital output: Pin jack, 1 set

### POWER SUPPLY

AC 120V, 60Hz

### POWER CONSUMPTION

10W (Standby: 0.9W)

### MAXIMUM EXTERNAL DIMENSIONS

W: 17-3/32" (435mm)

H: 2-61/64" (75mm)

D: 8-21/32" (220mm)

(including protruding parts)

### MASS

4.19 lbs (1.9 kg)

### REMOTE CONTROL UNIT

RC-982

Infrared pulse type

Supply: DC 3V, 2 R6P/AA batteries

# DENON, Ltd.

16-11, YUSHIMA 3-CHOME, BUNKYO-KU, TOKYO 113-0034, JAPAN  
Telephone: (03) 3837-5321

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