DENON

DVD VIDEO PLAYER

OPERATING INSTRUCTIONS MODE D'EMPLOI INSTRUCCIONES DE FUNCIONAMIENTO

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



4

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.

IMPORTANT SAFEGUARDS

- Read Instructions All the safety and operating instructions should be read before the product is operated.
- Retain Instructions The safety and operating instructions should be retained for future reference.
- 3) Heed Warnings All warnings on the product and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be followed.
- Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 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 PORTABLE CART WARNING
- 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.



 Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it

tion of the product and to protect it s3125A 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
- 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 has been exposed to fail of 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.

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 SPECI-FIED 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.

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

Non-use periods - Turn off the unit 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 player, and keep it for future reference.

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 120V, 60Hz AC outlet. To operate the unit, press the ON/STANDBY button to 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 the unit up 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 \bowtie

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.

\prec Caution

- 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.

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- 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.
- 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.
- This equipment is in Stand-by mode when it turns 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 code.
- 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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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 authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized 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 525 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 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.



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)

- **CD** : Description refers to playback of Audio CDs.
- MP3 : Description refers to playback of discs formatted with MP3.
- JPEG : Description refers to viewing of JPEG discs.
- **WMA** : Description refers to playback of discs formatted with WMA.

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.



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.

Playable Discs

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Video * 1, 2, 3, 5					
DVD-R DVD-RW * 1, 3, 4, 5, 6, 7, 8		or	Digital video (MPEG2)	12 cm or 8 cm	Chapter 1/Chapter 2/Chapter 3/Chapter 1/Chapter 2/Chapter 3/Chapter 4/Chapter 1/Chapter 2/Chapter 3/Chapter 1/Chapter 2/Chapter 3/Chapter 1/Chapter 2/Chapter 3/Chapter 3/Chapte
Audio CD * 3, 5		_	Digital audio		Audio CD / Example
CD-R CD-RW * 3, 4, 5, 7, 8	COMPACT CISC CICCOTINITIO C	-	Digital audio MP3 WMA* ⁹ Digital picture (JPEG)	12 cm or 8 cm	MP3, JPEG, WMA
Picture CD * 3, 4, 5, 7, 8	Kodak Picture CD compatible	-	JPEG	12 cm	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \end{array} \end{array} \\ $ \\ \\

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.

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

- 1: This player conforms to the NTSC color system. Discs recorded in other color systems such as PAL cannot be played back.
- *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 recording space left on a disc (the used portion is less than 55mm across), it may not play 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 player cannot play the disc contents protected by Windows Media Digital Rights Management (DRM).
- 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 / DVD-Audio NOTES:
 - Only the sound recorded on the normal CD layer can be delivered. (Super Audio CD)
 - The sound recorded on the high density Super Audio CD layer cannot be delivered. (Super Audio CD) Disc with the Video zone can be played. (DVD-Audio)
 - Disc only of the Audio zone cannot be played. (DVD-Audio)
- Any other discs without compatibility indications

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/480i) television signals.

Dolby Digital Sound

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

• DTS (Digital Theater System)

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

HDMI (High Definition Multimedia Interface)

You can enjoy clearer video output when connecting this player to a display equipment with an HDMI-compatible port.

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 can be adjusted.

 Random Playback for Audio CD, MP3, JPEG and WMA

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

Program Playback for Audio CD, MP3, JPEG and WMA

You can program the playback order of tracks 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 Power Off

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

Subtitles in a desired language

You can select a desired language for subtitles if that language is available on a disc.

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 a disc.

Ratings Control

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 back 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) using the remote control.

Dimmer

The brightness of the display can be adjusted.

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 darken by 75%. The program is inactivated when there is any activity.

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 or a
	title or a 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)
A-B:	Repeated playback of a part between two points.
Group:	Repeated playback of a folder of the MP3/JPEG/WMA disc being played is possible.

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

Marker

Electric reference points designated by user can be called back.

Resume Playback

User can resume playback from the point at which the playback 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 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.

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

FUNCTIONAL OVERVIEW





The buttons with circled numbers can only be operated with the 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. STOP Button [page 15]
- 6. I◄◄(SKIP) Button [page 16]
- 7. ►►I(SKIP) Button [page 16]
- 8. DIMMER Button [page 15]
- 9. REPEAT Button [page 17]
- HDMI Button [page 15]
 Press to set the HDMI connector's video signal output mode.
- 11. STILL/PAUSE Button [page 15]
- 12. Display, Remote Sensor Window
- **13. HDMI indicator [page 15]** Lights up when there is video signal output from the HDMI OUT jack.
- 14. A-B REPEAT Button [page 18]
- 15. RANDOM Button [page 18]
- 16. ZOOM Button [page 16]
- 17. CLEAR Button [page 17]
- 18. ANGLE Button [page 22]
- 19. MENU Button [page 15]
- 20. ENTER Button [page 15]
- 21. Cursor Buttons [page 15]
- 22. RETURN Button [page 17]
- 23. SEARCH MODE Button [page 16]
- 24. ◄◄(Fast Reverse SEARCH) Button [page 16] Press more than 2 seconds when you use the front panel button for this function.
- 25. ►► (Fast Forward SEARCH) Button [page 16] Press more than 2 seconds when you use the front panel button for this function.
- 26. SETUP Button [page 23]
- 27. SUBTITLE Button [page 21]
- 28. TOP MENU Button [page 15]
- 29. DISPLAY Button [page 20]
- 30. AUDIO Button [page 21]
- 31. Numeric Buttons [page 15]
- 32. MODE Button [page 18]
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✓ Tour of the Remote Control

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

POWER Buttons	DVD	CD/MP3/JPEG/WMA
	 To switch the power between on and standby. 	• To switch the power between on and standby.
A-B REPEAT Button ABB BERBAT Button A To mark a segment between A and B for repeated playback.		To mark a segment between A and B for repeated playback. (CD)
	To repeat playback of a title or chapter.	To repeat playback of a track or disc. (CD) To repeat playback of a track, group or disc. (MP3, JPEG, WMA)
	—	To play back tracks in random order.
	 To set Picture Control. To set Black Level on/off. To activate the 3D sound (Virtual surround system). To set Dialog Speed. 	To program a specific playback order. To activate the 3D sound (Virtual surround system). (CD, MP3, WMA)
	• To magnify part of the picture (x2/x4).	• To magnify part of the picture (x2). (JPEG)
	• To access various camera angles on the disc.	• To rotate a picture. (JPEG)
	• To access various subtitles on the disc.	
	• To access various audio functions on the disc.	• To select STEREO, L-ch or R-ch. (CD)
	• To display the current disc or HDMI mode.	•To display the current disc or HDMI mode.
SEARCH MODE Button	 To search for a chapter, title, time or marker. To return to a location on the disc rapidly. 	 To search for a track. To search for time or a marker. (CD) To return to a location on the disc rapidly.
OPEN/CLOSE Button	To open or close the disc tray.	• To open or close the disc tray.
Numeric Buttons (1) (2) (3) (4) (5) (6) (7) (6) (3) (9) (4) (9) (4) (9) (4) (9) (4) (9) (4) (9) (4) (9) (4) (9) (4) (9) (4) (9) (4) (4) (9) (4) (4) (9) (4) (4) (9) (4) (4) (9) (4) (4) (4) (9) (4) (4) (4) (9) (4) (4) (4) (4) (9) (4) (4) (4) (4) (4) (9) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	To select a chapter or title directly.	To select a track directly.
	 To clear the markers. To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. 	To clear the markers. (CD) To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. (CD)
	• To call up the menu on a disc.	• To call up the FILE LIST. (MP3, JPEG, WMA)
	To call up the top menu on a disc.	• To return to the first item in the highest hierarchy of the FILE LIST. (MP3, JPEG, WMA)
ENTER, Cursor Buttons	• To move the cursor and determine its position.	• To move the cursor and determine its position.
	To return to the previous operation in the setup menu.	• To return to the previous operation in the setup menu.
	To call up the setup menu.	• To call up the setup menu.
	• To skip chapters/titles.	To skip tracks.
SEARCH Buttons	To begin fast forward/reverse search or slow forward/ slow reverse.	To begin fast forward/reverse search. (CD, MP3, WMA)
STOP Button	To stop playback.	To stop playback.
PLAY Button	• To begin playback.	To begin playback.
STILL/PAUSE Button	 To pause playback. To advance playback frame by frame. 	• To pause playback.



NOTES:

- The front panel display has blinked while setting the program playback.
- "P**-•••" is displayed in the front panel display while setting the program playback. ("**" is program number, "•••" is track number.)
- "A" is displayed in front panel display while selecting the audio file (CD, MP3, WMA).
- "F-***" is displayed in the front panel display while selecting the group (folder). ("***" is group (folder) number.)
- "A-CLEAr" is displayed in the front panel display while selecting ALL CLEAR.
- "SHUFFLE" is displayed in the front panel display while setting the random playback.

When inserting the batteries, be careful to do so in

in the remote control unit's battery compartment.

To prevent damage or battery fluid leakage:

as alkaline and manganese.

pose of batteries in flames.

· Do not mix a new battery with an old one.

the proper direction, following the \oplus and \ominus marks

• Do not mix two different types of batteries such

· Do not short-circuit, disassemble, heat or dis-

· 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 (OPTICAL/COAXIAL)

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

- 2. AUDIO OUT Jacks
- Use an audio cable to connect to the Audio input jacks of A/V-compatible TV, wide screen TV or Stereo system. 3. HDMI OUT Jack
- Use a HDMI connection cable (commercially available) to connect to a display with an HDMI compatible port. 4. 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.

5. COMPONENT VIDEO OUT Jacks

Use a component video cable (commercially available) to connect these jacks if you have a TV with Component Video in jacks. These jacks provide CR/PR CB/PB and Y video. Along with S-Video, Component Video provides the best picture quality.

6. S-VIDEO OUT Jack

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

7. REMOTE CONTROL IN/OUT Jacks Connecting the DENON Satellite Remote Control to these jacks enables you to operate more than one DENON components with one remote control.

When using the DENON Satellite Remote Control,

- 1. Connect the DENON Satellite Remote Control to the REMOTE CONTROL IN jack of this player. This allows you to operate this player with the Satellite Remote Control.
- Connect another DENON component to the REMOTE CONTROL OUT jack of this player. This allows you to operate this player and the connected component with the same Satellite Remote Control.

NOTE:

• When there is video output from the HDMI OUT jack, no signal is output from the COMPONENT VIDEO OUT jacks.

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

- If your TV is compatible with progressive scanning (525p/480p), connect the TV to the COMPONENT VIDEO OUT jacks of the DVD player and set PROGRESSIVE to ON in the Display setting. Next, set your TV to the progressive scan mode. Refer to page 23 for instructions on changing the Display setting. PSCAN will appear on the Display of the unit.
- If your TV is not compatible with progressive scanning, set PROGRESSIVE to OFF (refer to page 23). 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.
- The unit is sending Progressive video signal and HDMI signal simultaneously when HDMI mode is set to ON. If you connected component video cable to your TV, which is not compatible with progressive scan, the distorted picture will be output.

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 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 Multi-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 up the player to a Dolby Digital or DTS 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 a commercially available audio optical or coaxial digital cable (not included) for the audio connections.

NOTES:

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



- Method 1 DVD Player + Stereo system
- Method 2 DVD Player + 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 "BITSTREAM" accordingly for audio output in the setup mode (refer to page 24). 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 Multi-channel surround format cannot be recorded as digital sound by an MD deck or DAT deck.
- Set "DOLBY DIGITAL" to "PCM" and "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 96kHz PCM DVD, the digital sound will be down sampled at 48kHz, even if you set "LPCM SELECT" to "OFF" (refer to page 24).

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 6 inches (15cm) or more when storing them.
- Use a cable which is 9.8 feet (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.



- 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 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 color (C) and brightness (Y) signals, achieving a clearer picture. If the TV is equipped with a S-Video input connector, we recommend connecting it to this unit's S-Video output connector using a commercially available S-Video connection cord.

Component output connector

Picture could be distorted if you connect DVD player with both Component output connector and HDMI output connector at the same time.

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.

$\prec~$ Connection to a TV with an HDMI Compatible Port

A simple 1-cable connection (using a commercially available cable) with a device having an HDMI (High-Definition Multimedia Interface) connector allows digital transfer of the digital images of DVD-Video and other sources.



A display equipment with an HDMI compatible port

Actual output modes by media

		DOLBY DIGITAL/DTS Setting		
	Audio Recording Format	BITSTREAM *1	PCM or OFF	
	Dolby Digital	Dolby Digital	2channel PCM	
DVD-Video	DTS	DTS	-	
	LPCM	2channel PCM	2channel PCM	
Audio CD		2channel PCM	2channel PCM	
MP3/WMA		2channel PCM	2channel PCM	

*1 If the connected equipment is not compatible with HDMI BITSTREAM, signals are output on PCM.

Copyright protection system

To play back the digital video images of a DVD via an HDMI connection, it is necessary that both the player and the display equipment (or an AV amplifier) support a copyright protection system called HDCP (High-bandwidth Digital Content Protection System). HDCP is copy protection technology that comprises data encryption and authentication of the connected AV equipment.

This player supports HDCP. Please read the operating instructions of your display equipment (or AV amplifier) for more information.

*HDMI: High-Definition Multimedia Interface

NOTES:

- When using an HDMI-incompatible or HDCP-incompatible display equipment, the image will not be viewed properly.
- Among the devices that support HDMI, some devices can control other devices via the HDMI connector; however, this player cannot be controlled by another device vice the HDMI connector.
- The audio signals from the HDMI connector (including the sampling frequency, the number of channels and bit length) may be limited by the equipment that is connected.
- Among the monitors that support HDMI, some do not support audio output (for example, projectors). In connections with equipment such as this, audio signals are not output from the HDMI output connector.
- When the set's HDMI connector is connected to a DVI-D compatible monitor (HDCP compatible) with an HDMI-DVI converter cable (commercially available), the signals are output in digital RGB.



- NOTES:
 - Video and audio signals may distorted temporarily when switching to/from the HDMI output mode.
 - Use a display equipment with an HDMI-compatible port. The unit is sending Progressive video signal and HDMI signal simultaneously when HDMI mode is set to ON. If you connected component video cable to your TV, which is not compatible with progressive scan, the distorted picture will be output.
 - The HDMI indicator on the front panel flashes when you select the HDMI output mode but there is no HDMI cable.
 - You can check the HDMI connection status by pressing the **DISPLAY** button during playback with the HDMI output mode (refer to page 20).
 - · If the TV is not compatible with newly selected HDMI output mode, the actual output mode will be kept the one before changing the selection. When this occurs, the newly selected mode will appear on the front panel display (see page 10) while the actual output resolution will be indicated by performing the on-screen display as described on page 20.
 - · You cannot select the HDMI output mode when the setup menu is on the TV screen.
- 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 ($\blacktriangle / \checkmark / \checkmark / \circlearrowright)$ to highlight your selection in the DVD main menu and press the ENTER button to confirm. NOTE: Unless otherwise stated, all operations described in this manual are based on remote control use. Some operations can be carried out using the menu bar on the TV screen. Disc Menus DVD 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 $(\land / \lor / \triangleleft / \triangleright)$ 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. If the feature is not available, 🚫 symbol may appear on the TV screen. B Press the Cursor buttons ($\blacktriangle / \checkmark / \checkmark / \blacktriangleright$) to select an item, and the ENTER button to confirm the selection. · Playback will begin at the selected title. 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 JPEG WMA DVD CD MP3 During playback, press the п STILL/PAUSE button. Playback will pause and sound will be muted. 2 To continue playback, press the **PLAY** button. NOTE: On DVDs, set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred (refer to page 23).

Brightness of the Front Panel Display



NOTE:

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

Zoom



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



3 Use the Cursor buttons ($\blacktriangle / \checkmark / \checkmark / \blacktriangleright$) to move the zoomed picture across the screen.



4 To exit zoom mode, press the ZOOM button. NOTES:

- · Zoom 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 pan through the zoomed picture on some JPEG files.

Title / Chapter Search DVD By using the SEARCH MODE button Press the SEARCH MODE button **TT**_/29 repeatedly until the chapter search or the title search display 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 I 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 panel display. • If the SKIP I or by 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 being played, 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 A and b buttons are not available when playback is stopped.
- A disc that does not contain chapters within titles, the SKIP A and by buttons change the titles.

Track Search CD MP3 JPEG WMA There are two ways to begin playback an Audio CD, MP3, JPEG or WMA disc at a specific track. By using the SEARCH MODE button Press the SEARCH MODE button. TR / 15 · 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 I button to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.

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

NOTE:

The SKIP I and D buttons are not available when playback is stopped.



- Press the SEARCH MODE button until the time search screen appears on **(b)** _:__:_ TOTAL 1:23:45
- the TV screen. 2 Within 30 seconds, enter a desired disc time point on the
 - disc with the Numeric buttons.
 - · Playback will start at the specified time.
 - · For Time Search, "0" appears automatically when there is no need to enter a number. For example, appears in the time search screen if the total "0:0 :
 - time of the disc is less than 10 minutes.
- Press the CLEAR button to erase an incorrect input.

DVD CD You can use markers to memorize your favorite places on a disc.

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

Marker Setup Screen

ſ	AUCD	1
	MIKR	
~		-

2 Press the **Cursor** buttons (\blacktriangleleft or \blacktriangleright) to select 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 and ensure that "__:__:__' appears in the display.

- 3 When the disc reaches the point you want to remember, press the ENTER button.
 - . The title or track and elapsed playback time will appear in 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 ►), position the cursor on to 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.

G OFF	> 🔄 CHAPTER	
(repeat off)	(current chapter repeat)	(current title repeat)

NOTES:

CD

- · 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



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

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



- · In the track repeat, the repeat setting will be cleared when moving to other track.
- Repeat playback does not function during A-B repeat playback.



NOTE:

· In the track or group repeat, the repeat setting will be cleared when moving to other track or group.

DISC PLAYBACK



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

- In stop mode, press the MODE button.
 The program screen will appear.
- 2 Press the **Cursor** buttons

 $(\triangle \text{ or } \nabla)$ to select a track, then press the **ENTER** button.

- Press the CLEAR button to erase the most recently entered track.
- Press the **PLAY** button to start programed playback.



CD

WMA

IOGRAM

5:00 3:10 5:10 1:30 2:30

BGBBBBB

JPEG

MY COLLE

╈

PROG

ABC

: Inner

1 3.3

- 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 most recently entered track.
 - The programed track is displayed in the right-hand screen.
 - If the entire program 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 programed playback.
 - Press the **RETURN** button, and the stop screen will show up with the program 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. (Program continued.)
- Press the **STOP** button twice and then the **PLAY** button again, playback will restart from the first track in the usual way. Your program 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 program all together, select ALL CLEAR at the bottom of the list at step 2. And, "A-CLEAr" is displayed on the front panel display at that time.
- To repeat the current track in the program, press the **REPEAT** button repeatedly until I TRACK appears during playback. To repeat the entire program press the **REPEAT** button repeatedly until I ALL appears during playback.
- If eight or more tracks were set in a program, use the SKIP Ided 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, Program function allows 99 tracks in combination of MP3, JPEG and WMA files.
- The front panel display has blinked while setting the program playback.



- To repeat the current track in the random selection, press the **REPEAT** button repeatedly until I TRACk appears during playback. To repeat the entire random selection press the **REPEAT** button repeatedly until I 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.
- "SHUFFLE" is displayed on the front panel display at step 1.

MP3 / JPEG / WMA Playback



When a CD-R or CD-RW disc with MP3, JPEG or WMA files is inserted in the DVD player, the file list will appear automatically on the TV screen. The number of tracks is also displayed on the front panel.

- Press the Cursor buttons (▲ or ▼) to select the desired group (folder) or track.
 - To return to the previous screen, press the **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 "▼".
- · 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:

iowing specifications.					
Applicable MP	3 file	Remarks			
Sampling 44.1kHz frequency 48kHz		 It is prohibited to record MP3 sound on a digital device when the connectior is made digitally. 			
Type MPEG1 audio layer 3		 MP3 files recorded at fixed bit rate of 32 kbps or higher are recommended. 			
Applicable JPE	EG file	Remarks			
Size of image Upper limit: 6300x5100 dots Lower limit: 32x32 dots		 A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen. 			
Applicable 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. 			
Туре	WMA version 9	 A prohibition "disable" symbol will appear if the user attempts to run a non-reproducible file such as copyright-protected. Recorded in multi-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 char-
- acters. Unrecognizable 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 provide developing service of Kodak Inc.

When Kodak Picture CD is inserted in the DVD Player, Kodak Picture CD menu appear automatically on the TV screen. · If all menu items cannot be

displayed on the screen

- Picture1 Picture2 Picture3 Picture4 Picture5 Picture6 1/32 . scope, "►►I" appears at the Current track number / the number of total tracks
- right bottom of the screen, indicating that the user can view remaining items on the next page. "I 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 "►►I" is shown at the right bottom, use the SKIP ►►I button to view the next page. If "Idd" is shown at the left bottom, use the SKIP I button to view the previous page.
- · It may take some time until all menu items are displayed on the menu screen.
- **2** Press the **Cursor** buttons ($\blacktriangle / \checkmark / \checkmark / \blacktriangleright$), 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.

B 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 ANGLE button will turn the image clockwise by 90 degrees when an image is displayed.
- 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 (\triangleleft or \blacktriangleright) or **ENTER** button to switch between NORMAL (100%) and SMALL (95%).

DISC PLAYBACK

- Progressive JPEGs (JPEG files saved in the progressive format) will not be played back on this DVD player.
- High resolution JPEG files take 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.

DVD

►

CD

CH 9/49 0:00:00 -0:03:30

CT 11

Changing the On-Screen Display

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

- Press the DISPLAY button during playback.
 - Current chapter number/total chapters, elapsed time and remaining time of the current chapter, and current play back status will be displayed.

2 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.

3 Press the DISPLAY button

- for the third time.
- · The bit rate (the amount of
- video data currently being read) and current playback status will be displayed. · Current repeat setting appears on the display bar only when the repeat setting is active.
- (C: Chapter repeat/ T: Title repeat/A C B: A-B repeat)
- · If you are playing back a two-layered disc, the layer number will also be displayed.
- (L0: Layer 0 is played back. L1: Layer 1 is played back.) 4 Press the **DISPLAY** button again.
 - Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on this page.)
- Press the DISPLAY button again to exit.

1 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 display bar only when the Repeat setting is active. (T: Track repeat/ A: All tracks repeat/A B: A-B
- Press the DISPLAY button again.

repeat)

- · 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 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 program or random mode, ROGRAM (or RANDOM) will be displayed.
- 3 Press the DISPLAY button again to exit.

Press the **DISPLAY** button during playback.

· Current file name will be displayed.

2 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 program or random mode, III PROGRAM (or RANDOM) will be displayed.

3 Press the **DISPLAY** button again.

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

4 Press the **DISPLAY** button again.

- Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on this page.)
- 5 Press the DISPLAY button again to exit.

-		WMA
k	 Press the DISPLAY button during playback. Current file name will be displayed. 	K 01
_	 Press the DISPLAY button again. Title name based on tag information of currently played-back file will be displayed. 	NAME
	Press the DISPLAY button for the third time.	T NAME
	Artist name based on tag infor- mation of currently played- back file will be displayed.	
	Press the DISPLAY button again.	5 0:01:15
		5 0.01.10 41 F

- 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 program or random mode, I PROGRAM (or RANDOM) will be displayed.

5 Press the DISPLAY button again.

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

6 Press the **DISPLAY** button again.

Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on this page.)

Press the DISPLAY button again to exit.

NOTE:

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

VIDEO INFO. AUDIO INFO. MAX CHANNE

NOTE FOR HDMI DISPLAY:

- · The displayed HDMI status are as follows:
 - 1. Information for image output/Resolution of image
 - Sound output format
 - 3. Maximum number of audio channels that can be accepted by the connected equipment

YCbCr/1080 BITSTREAM

MP3	JPEG
TRACK 01	►
<example< td=""><th>: MP3></th></example<>	: MP3>
TR 1/36 0:01	:15 ÇT 🕨

Slide Show Mode



DVD

You can switch to the slide show mode during playback.

- Press the MODE button during playback.
 - The slide show mode screen will appear.
 - · You cannot change to the slide show mode in stop mode 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.

Dialog Speed

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.

- During playback, press the MODE button repeatedly until the Dialog Speed 0FF setting appears.
 - "OFF" appears on the TV screen.

Press the ENTER button or the Cursor buttons (

- or \blacktriangleright) to switch among $\downarrow \downarrow$ (x1.3), \downarrow (x0.8) and OFF. Plays back approximately at 0.8 times of nor
 - mal playback. Image: mal 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.
- Subtitle can be viewed during this function.
 Picture Control, Black Level 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, OPTI-CAL or HDMI), the LPCM sound will be output.
- When using the Dialog Speed function with Multi-chan-nel 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.

Audio Language

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

- 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 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 25).
- Audio Language selection cannot be made during Dialog Speed.
- 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

The DVD player allows you to select a subtitle language (if multiple languages are 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 (\blacktriangleleft or \blacktriangleright) to turn on or off subtitles during playback.



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

NOTES:

DVD

HELLO

- 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 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 25).
- If the disc has no subtitle language, 'NOT AVAILABLE' will be displayed.

DISC PLAYBACK

Camera Angle

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the $(\begin{array}{c} \infty \\ m \end{array})$ 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 (refer to page 25).

Picture Control

DVD

BRIGHTNESS \$ 4+1>

DVD

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

- During playback, press the MODE button.
- Press the Cursor buttons (▲ or ▼) to switch among items.
- IP Press the ENTER button or the Cursor buttons (◄ 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.
- 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 21).
- If you return all items to the default settings, please execute initialize.

Stereo Sound Mode

CD

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





NOTE:

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



You can enjoy surround-sound effect with two speakers.

- During playback, press the **MODE** button repeatedly until the Virtual Surround setting appears.
- OFF
- 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 playback only).
- This function cannot be used during Dialog Speed (refer to page 21).

Black Level Setting



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

During playback, press the



Press the ENTER button to switch ON/OFF. ON (Default) : Makes the dark parts brighter. OFF : Shows the original picture as recorded.

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

NOTE:

This function cannot be used during Dialog Speed (refer to page 21).

DVD SETUP



- 23 -

DVD SETUP

Audio Setting

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

- 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.
- Press the Cursor buttons (<</p> or ►) to select AUDIO, then the ENTER button to confirm.



🐨 🗀 🔝 🖍 Other

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DRC ON LPCM SELECT OFF DOLBY DIGITAL BITS' DTS BITS' AUDIO MODE HDM

OTS NUDIO MODE

ON OFF BITSTREAM BITSTREAM HDMI

AUDIO

RC PCM SELECT

DTS AUDIO MODE

- 4 Press the Cursor buttons (A or button to select an item,
 - then press the ENTER button.
 - This menu display contains 2 pages. Press the Cursor button (▼) repeatedly to show the next page.

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.
- This function is available only on digital outputting of a disc recorded in over 96kHz.
- · When the HDMI sound is output, the setting is disregarded.

When playing disc with copyright 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.

.(2) -	DRC LPCM SELECT DOLBY DIGITAL DTS AUDIO MODE	ON OFF BITSTREAM BITSTREAM HDMI			

· This function is effective only for the COAXIAL and OPTICAL connections. BITSTREAM

DOLBY DIGITAL signals are output as Bitstream. PCM: Convert Dolby Digital to PCM.

DTS

(Default: BITSTREAM) QUICK

 Set to BITSTREAM when the unit is connected to a DTS decoder. BITSTREAM:



🌚 🗀 🎎 🖍 Other

UAC ON LPCM SELECT OFF DOLBY DIGITAL BITSTREAM DTS BITSTREAM AUDIO MODE HDMI

- DTS signals are output as Bitstream.
- · For HDMI connection, if the connected equipment is not compatible with the DTS Bitstream, the signals are not output regardless of the setting.

OFF: No DTS sound will be output.

· DTS sound is output only from digital audio outputs.

AUDIO MODE (Default: HDMI)

- Set to HDMI when outputting the HDMI sound. · Set to ANALOG when not out-
- putting the HDMI sound.
- Description Press the SETUP button to exit and activate the new settings.

Ratings Control

Ratings Control allows you to set a limit, which prevents your children from viewing inappropriate materials on DVDs. A fourdigit 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.

- 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.



- 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.
- 5 Press the Cursor buttons (A or to select RATING LEVEL. then press the ENTER button.
- 6 Press the Cursor buttons (or to select a desired level, then press the ENTER button.
- Press the SETUP button to exit and activate the new settings.

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.
- Press the Cursor buttons (▲ or ▼) to select PASSWORD CHANGE, then press the ENTER button.
- 3) Enter a new four-digit password, then press the ENTER button.
- 4) 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
- 2 Repeat steps 4 to 7 to re-establish the parental lock.

CONTROL LEVELS

- ALL
- Parental lock is canceled. 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.



o 7 [NC-17] 6 [R]

4 [PG13] 3 [PG]







✓ 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.

- 1 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 Other, 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 ON or OFF.



AUTO POWER OFF (Default : ON)

- Press the ENTER button repeatedly to turn 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 dis-
- play dims only during playback.

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.

Press the SETUP button to exit.

Reset to the Default Settings (except for Ratings Control)

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

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

NOTE:

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

✓ Language Code List

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

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 page 21. If you choose any other languages, '---' will be displayed instead.

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THERS IDF SHOW

SPLAY

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 power 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 VIDEO/AUDIO cable connections to the TV. Check if the PROGRESSIVE mode is set correctly. 	— 13 12-13 23
Distorted picture	 Sometimes a small amount of picture distortion may appear. This is not a malfunction. Connect the player directly to the TV. The unit is sending Progressive video signal and HDMI signal simultaneously when HDMI mode is set to ON. If you connected component video cable to your TV, which is not compatible with progressive scan, the distorted picture will be output. Press the HDMI button on the front panel to set the HDMI output mode to OFF. 	— 13 11, 13-15
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. 	13 6
No sound or distorted sound	 Adjust the volume. Check that the speakers are connected correctly. The HDMI sound is not output when AUDIO MODE is set to ANALOG. 	— 12 24
No audio at digital output	 Check the digital connections. Check the audio settings. 	12 24
No DTS sound output	-Use a DIGITAL OUT jack when outputting the DTS sound.	12, 24
No image from HDMI connection	 Check the HDMI connection. (Check the status of the HDMI related indications.) Check whether the connected monitor equipment or other equipment supports HDCP. (This player will not output a video signal unless the other equipment supports HDCP.) Check the setting of HDMI. Check whether the output format of this player (HDMI FORMAT) matches the supported input format of other connected equipment. 	14, 23 14 14, 23-24 14
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 cannot be played	 Clean the disc. Ensure the disc label is facing up. Check if the disc is defective by trying another disc. Cancel Ratings control or change the control level. Insert a correct disc that plays on this player. 	27 15 24 6
No return to start-up screen when disc is removed	-Reset the player by turning it off, then on again.	_
The 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 10 10
Buttons do not work or player stops responding	 To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds. 	—
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
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. 	22
Playback does not start when the title is selected	-Check the "RATINGS" setting.	24
The password for rating level has been forgotten	 Enter the default password "4737", then your forgotten password will be cleared. 	24

NOTES:

· Some functions are prohibited on some discs.

[·] 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.

SIGNAL SYSTEM

NTSC color

APPLICABLE DISCS

DVD-Video Discs

 layer 12cm single-sided discs, 2-layer 12cm single-sided discs, 2-layer 12cm double-sided discs (1 layer per side)
 layer 8cm single-sided discs, 2-layer 8cm single-sided discs, 2-layer 8cm double-sided discs (1 layer per side)
 DVD-R/DVD-RW

- (2) DVD-R/DVD-RW(3) Compact discs (Audio CD)
- 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: 0.648Vp-p (75Ω/ohms) PR/CR output level: 0.648Vp-p (75Ω/ohms) Output connector: Pin jacks, 1 set

HDMI OUTPUT HDMI jack, 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 (48kHz sampling)
: 4Hz to 44kHz (96kHz sampling)
2 CDs2 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

12W (Standby: 0.95W)

MAXIMUM EXTERNAL DIMENSIONS

W: 17-3/32" (435mm) H: 2-61/64" (75mm) D: 12-13/64" (310mm) (including protruding parts)

MASS

5.06 lbs (2.3 kg)

REMOTE CONTROL UNIT

RC-1018 Infrared pulse type Supply: DC 3V, 2 R6P/AA batteries

MAINTENANCE

Cleaning the Cabinet

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

Cleaning Discs

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

Cleaning the disc lens

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

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ReWritable

SR

ReWritable

N

SC

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 the this product. Do not attempt to play such discs, as they may damage the player.











SA





Denon Brand Company, D&M Holdings Inc. 1VMN22967 E6A80UD *****