DENON

DVD AUDIO-VIDEO / SUPER AUDIO CD PLAYER

DVD-1940

OPERATING INSTRUCTIONS

MODE D'EMPLOI

BEDIENUNGSANLEITUNG

GEBRUIKSAANWIJZING

INSTRUCCIONES DE FUNCIONAMIENTO

ISTRUZIONI PER L'USO

BRUKSANVISNING

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



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION:

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



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



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

PRECAUTIONS

Laser Safety

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

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE

SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

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

STARE INTO BEAM.

LOCATION: PRINTED ON THE BACK



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

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

Declaration of Conformity

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

EN60065, EN55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 89/336/EEC and 2006/95/EC Directive.



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 230V, 50Hz AC outlet. To operate the unit, press the **ON/STANDBY** button and turn on the unit.

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Warning

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

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

✓ Installation Location

For safety and optimum performance of this unit:

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

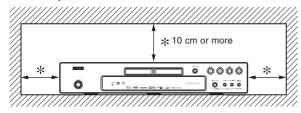
Cautions on Installation

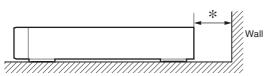
Noise or disturbance of the picture may be generated if this unit or any other electronic equipment using microprocessors is used near a tuner or TV. If this happens, take the following steps:

- Install this unit as far as possible from the tuner or TV.
- Set the antenna wires from the tuner or TV away from this unit's power cord and input/output connection cords.
- Noise or disturbance tends to occur particularly when using indoor antennas or $300\Omega/\text{ohms}$ feeder wires. We recommend using outdoor antennas and $75\Omega/\text{ohms}$ 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 Authorised Service Centre for servicing.

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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.
- 3) Keep the unit away from the radiator heat sources.
- 4) Avoid using near strong magnetic fields.
- 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.
- 8) This equipment is in Stand-by mode when it is turned off whilst the power cord is connected.
- 9) Keep the set free from moisture, water and dust.
- 10) Sufficiently ventilate the place of installation. If the unit is left in a room full of the smoke from cigarettes, etc., for long periods of time, the surface of the optical pickup could get dirty, in which case it will not be able to read the signals properly.
- 11) Store the operating instructions in a safe place. After reading the operating instructions, store them in a safe place as they could come in handy in the future.
- 12) Handle the power cord carefully. Hold the plug when unplugging the cord.
- All the safety cautions and operating instructions should be read before the DVD player is operated.
- 14) Use caution not to pinch your finger in the disc slot.
- 15) Do not put heavy objects on the AC power cord.
- 16) Keep the AC power cord away from heat appliances.
- 17) Be sure to remove a disc and unplug the AC power cord from the outlet before carrying the DVD player.
- 18) Do not put any pressure to the DVD player when carrying.
- 19) Do not use the DVD player outdoors.
- Do not place any combustible objects on the device (candles, etc.).
- Disconnect the mains plug to shut off when find troubles or not in use.
- 22) The mains plug shall remain readily operable.
- 23) Read both manual instructions to ensure correct and safe installation and interconnection of the unit in multimedia systems.
- 24) Keep the distances 20 cm around apparatus of ventilation openings.
- 25) To completely disconnect this product from the mains, disconnect the plug from the wall socket outlet. The mains plug is used to completely interrupt the power supply to the unit and must be within easy access by the user.

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A NOTE ABOUT RECYCLING:

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

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

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

This product and the accessories packed together constitute the applicable product according to the WEEE directive except batteries.





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.

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

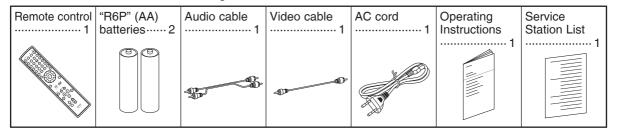
U.S. Patent Nos. 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132.

Notice for the Progressive Scan Outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 480(525) or 576(625) progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 480p(525p) or 576p(625p) DVD player, please contact our customer service centre.

Supplied Accessories

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



✓ Symbols Used in this Manual

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

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DVD-V: Description refers to playback of DVD-Video discs (including DVD-R/RW discs).

DVD-A: Description refers to playback of DVD-Audio discs.

VCD: Description refers to playback of Video CDs.

Super Audio CD : Description refers to playback of Super Audio CDs.

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.

DivX°: Description refers to playback of discs formatted with DivX°.

Playable Discs

Playable discs	Mark (logo)	Region code	Recorded signals	Disc size	Disc types
DVD-Audio * 1, 2, 4	AUDIO	-	Digital audio + Digital video (MPEG2)	12 cm or 8 cm	Example GROUP 1 GROUP 2 Track 1 Track 2 Track 3 Track 4 Track 1 Track 2
DVD-Video * 1, 2, 4	VIDEO VIDEO		Digital video (MPEG2)	10	Example Title 1 Title 2 Chapter 1 Chapter 2 Chapter 3 Chapter 4 Chapter 1 Chapter 2 MP3,
DVD-R DVD-RW * 1, 2, 3, 4, 5, 6, 7, 9	R DVD RW	or e	`MP3, ' JPEG, WMA*9, DivX [®]	12 cm or 8 cm	JPEG, WMA, DivX® Example GROUP 1 Track 1 Track 2 Track 3 Track 4 Track 5 Track 6 (DVD-R/RW only)
Video CD * 2, 4, 8	COMPACT VIDEO CD	-	Digital video with audio		Video CD, Super
Super Audio CD * 2, 4	SUPERALIDIO CD Stereo Multi-ch	-	Digital audio		Audio CD, Audio CD Example
Audio CD * 2, 4	DIGITAL AUDIO	-	Digital audio	12 cm or 8 cm	Track 1 Track 2 Track 3 Track 4 Track 5 Track 6
CD-R CD-RW * 2, 3, 4, 6, 7, 9	COMPACT GEOTICIDIO GE	-	Digital audio MP3 WMA*9 Digital picture (JPEG) DivX®		MP3, JPEG, WMA, DivX® Example GROUP 1 Track 1 Track 2 Track 3 Track 4 Track 5 Track 6 Track
Picture CD * 2, 3, 4, 6, 7	Kodak Picture CD COMPATIBLE	-	JPEG	12 cm	



is a trademark of DVD Format/Logo Licensing Corporation.



is trademark of Eastman Kodak Company.





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

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

- *1: Certain DVD discs do not operate as described in this manual due to the intentions of the disc's producers.
- *2: Scratched or stained discs may not be played back.
- *3: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.
- *4: You can play back discs which bear the marks above. If you use nonstandardised discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.
- *5: Only the discs recorded in the video format and finalised can be played back. Unfinalised 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.).
- *6: If there is too much recordable space left on a disc (the used portion is less than 55 mm across), it may not be played back properly.
- *7: Do not glue paper or put stickers on to the disc. These may damage the disc, and the unit may not read it correctly.
- *8: This unit conforms to ver.1.1 and ver.2.0 of Video CD standard, with PBC function. Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.

Ver.2.0 (with PBC function): While using a Video CD with PBC function, "Pbc" appears on the screen and the display.

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NOTE: When playing back Video CDs with PBC function, some operations (e.g., track search and repeat tracks) cannot be performed. Cancel PBC function temporarily to perform those operations (refer to page 17).

*9: This player cannot play back the disc contents protected by Windows Media Digital Rights Management (DRM).

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

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

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

DVD-RAM / CD-i / Photo CD / DVD with region codes other than 2 or ALL / DVD-ROM for personal computers / CD-ROM for personal computers

· 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.

ΕN

• Progressive Scan system

The progressive scan system provides less flickering and images in higher resolution than that of traditional 480i (525i), 576i (625i) or multi television signals through the interlace scan system.

TV Type

Use this to set your TV's video format (MULTI, NTSC or PAL).

Analogue 5.1-channel Dolby and DTS surround output

This player is equipped with analogue Multi-channel Dolby and DTS surround audio out jacks for playback.

• 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 is adjusted.

Random Playback for Super Audio CD, Audio CD, MP3, JPEG, DVD-Audio and WMA

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

Programme Playback for Super Audio CD, Audio CD, MP3, JPEG, DVD-Audio and WMA

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

DVD menus in a desired language

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

Auto Power Off

The power turns off automatically if there is no activity at the player or its remote control for more than 30 minutes (refer to page 33).

• Subtitles in a desired language

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

Selecting a camera angle

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

Choices for audio language and sound mode You can select a desired audio language and sound mode

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

Ratings Control (Parental lock)

You can set the control level to limit playback of discs which may not be suitable for children.

Super Audio CD multi-channel playback compatibility

In addition to playing DVD-Video and DVD-Audio discs, this player can play multi-channel Super Audio CDs and a maximum of 5.1 channels can be output.

Automatic detection of discs

This player automatically detects if a loaded disc is DVD-Video, DVD-Audio, Video CD, Super Audio CD, Audio CD, MP3, JPEG, WMA or DivX®.

Pure Direct

The sound quality of analogue audio output is improved by turning off HDMI output, video signal output, and the front panel display.

Direct Search

You can search a desired title, chapter, and track with numeric button during playback or in stop mode.

On-screen display

Information about the current operation can be displayed on the TV screen, allowing you to confirm the currently active functions (such as programme playback), using the remote control

Dimmer

The brightness of the display can be adjusted.

Screen Saver

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

Picture Control

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

Search

Chapter search:
Title search:
Group search:
Page search:
Track search:
Search for a desired title.
Search for a desired group.
Search for a desired page.
Search for a desired track.

Time search: Search for a desired time point of a title

or track.

Repeat

Chapter: Repeated playback of a chapter of the disc.
Track: Repeated playback of a title of the disc.
Repeated playback of a track of the disc.
All: Repeated playback of the entire disc.

(exclude DVD-Video)

A-B: Repeated playback of a part between two points. Group: Repeated playback of a folder of the DVD-Audio/

MP3/JPEG/WMA/DivX® disc.

Zoom

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

Marker

Electronic reference point designated by user can be called back.

Resume Playback

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

COMPONENT VIDEO OUT Jacks

Jacks located on the back of the DVD Player which are used to send high-quality video to a TV via Component Video In Jacks.

Bit rate indication

DRC (Dynamic Range Control)

You can control the range of sound volume.

• MPEG sound

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This player can handle a disc that supports MPEG audio when it is connected to an MPEG decoder.

Displaying a JPEG picture

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

Reproducing WMA data

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

Playing back an MP3 disc

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

Reproducing DivX® data

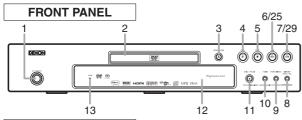
You can enjoy DivX® files which are recorded on DVD-R/RW or CD-R/RW.

• Official DivX® Ultra Certified product

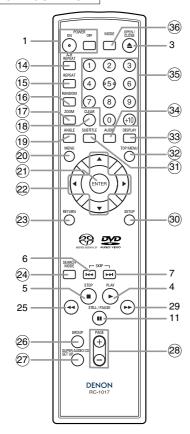
 Plays all versions of DivX[®] video (including DivX[®] 6) with enhanced playback of DivX[®] media files and the DivX Media Format.

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

FUNCTIONAL OVERVIEW



REMOTE CONTROL



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

- 1. POWER ON/OFF (ON/STANDBY) Buttons [page 17]
- 2. Disc loading tray
- 3. OPEN/CLOSE Button [page 17]
- 4. PLAY Button [page 17]
- 5. STOP Button [page 17]
- 6. I◀◀ (SKIP DOWN) Button [page 20]
- 7. ▶▶I (SKIP UP) Button [page 20]
- 8. DIMMER NTSC/PAL Button [page 17]
- PURE DIRECT Button [page 17]
 Press to activate Pure Direct function to reduce noise
- 10. HDMI Button [page 17]

Press to set the HDMI connector's video signal output mode

- 11. STILL/PAUSE Button [page 19]
- 12. Display, Remote Sensor Window
- 13. HDMI indicator [page 17] Lights up when there is video signal output from the HDMI OUT jack.
- 14. A-B REPEAT Button [page 22]
- 15. REPEAT Button [page 21]
- 16. RANDOM Button [page 22]
- 17. ZOOM Button [page 19]
- 18. CLEAR Button [page 21]
- 19. ANGLE Button [page 28]
- 20. MENU Button [page 18]
- 21. ENTER Button [page 18]
- 22. Cursor Buttons [page 18]
- 23. RETURN Button [page 18]
- 24. SEARCH MODE Button [page 20]
 25. ◄◄ (Fast Reverse SEARCH) Button [page 19]

Press more than 2 seconds when you use the front panel button for this function.

- 26. GROUP Button [page 18]
- 27. SUPER AUDIO CD SET UP Button [page 28]
- 28. PAGE Buttons [page 18]
- 29. For the forward SEARCH (Fast Forward SEARCH) Button [page 19]

 Press more than 2 seconds when you use the front panel button for this function.
- 30. SETUP Button [page 29]
- 31. SUBTITLE Button [page 27]
- 32. TOP MENU Button [page 18]
- 33. DISPLAY Button [page 25]
- 34. AUDIO Button [page 27]
- 35. Numeric Buttons [page 17]
- 36. MODE Button [page 19]

Loading the Batteries

1. Open the battery compartment cover.



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



3. Close the cover.



Cautions On Batteries

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

Tour of the Remote Control

Buttons on remote control work in different ways for DVD-Video, DVD-Audio, Video CD, Super Audio CD, Audio CD, MP3, JPEG, WMA and DivX®.

Refer to the following table for correct use.

			MP3, JPEG, WMA	DivX [®]
POWER ON/OFF Buttons ON POWER OFF	• To turn on or standby the unit.	To turn on or standby the unit.	To turn on or standby the unit.	To turn on or standby the unit.
A-B REPEAT Button	To mark a segment between A and B for repeated playback.	To mark a segment between A and B for repeated playback.	To mark a segment between A and B for repeated playback. (Super Audio CD, CD)	To mark a segment between A and B for repeated playback.
REPEAT Button	To repeat playback of a title, chapter, group or track.	To repeat playback of a track or disc.	To repeat playback of a track or disc. (Super Audio CD, CD) To repeat playback of a track, group, or disc. (MP3, JPEG, WMA)	 To repeat playback of a track, group or disc. (DivX® media files) To repeat playback of a title or chapter. (DivX® video files)
RANDOM Button	To shuffle the playing order of groups and tracks. (DVD-Audio)	_	To play back tracks in random order.	
MODE Button	To set Picture Control. To activate the 3D sound (Virtual surround system). To set Dialog Speed. To programme a specific playback order. (DVD-Audio) To play all groups. (DVD-Audio)	To set Picture Control. To activate the SD sound (Virtual surround system).	To programme a specific playback order. To activate the 3D sound (Virtual surround system). (CD, MP3, WMA) To activate the Slide Show mode. (JPEG)	To set Picture Control.
ZOOM Button	To magnify part of the picture (x2/x4).	To magnify part of the picture (x2).	To magnify part of the picture (x2). (JPEG)	To magnify part of the picture (x2).
ANGLE Button	To select a camera angle on the disc.	_	• To rotate a picture. (JPEG)	_
SUBTITLE Button	To select a subtitle language on the disc.	_	_	To select a subtitle language on the disc.
AUDIO Button	To access various audio functions on the disc.	To select STEREO, L-ch or R-ch.	To select STEREO, L-ch or R-ch. (CD)	• To access various audio functions on the disc.
DISPLAY Button DISPLAY	To display the current disc or HDMI mode.	To display the current disc or HDMI mode.	To display the current disc or HDMI mode.	To display the current disc or HDMI mode.
SEARCH MODE Button SEARCH MODE	To search for a title, chapter, track, time or marker. To rapidly return to a location on the disc.	To search for a track, time or marker. To rapidly return to a location on the disc.	To search for a track. To search for time or a marker. (Super Audio CD, CD) To rapidly return to a location on the disc. (Super Audio CD, CD)	To search for a track or time. (DivX® media files) To search for a chapter, title or time. (DivX® video files)
OPEN/CLOSE Button	• To open or close the disc tray.	To open or close the disc tray.	• To open or close the disc tray.	To open or close the disc tray.
Numeric Buttons 1 2 3 4 5 6 7 8 0 0 40	To select a title, chapter, group or track directly.	To select a track directly.	To select a track directly.	To select a track directly. (DivX® media files) To select a chapter or title directly. (DivX® video files)

Tour of the Remote Control

	DVD-Video, DVD-Audio	Video CD	Super Audio CD, CD, MP3, JPEG, WMA	DivX®
CLEAR Button	To clear the markers. To clear the most recently entered track for the programme playback. (DVD-Audio) To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat.	To clear the markers. To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat.	To clear the markers. (Super Audio CD, CD) To clear the most recently entered track for the programme playback. To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat. (Super Audio CD, CD)	To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat.
MENU Button	To call up the menu on a disc.	_	• To call up the file list. (MP3, JPEG, WMA)	To call up the file list.
TOP MENU Button	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)	To call up the menu on a file. (DivX® video files) To return to the top file in the highest hierarchy of the file list.
ENTER, Cursor Buttons	To move the cursor and determine its position.	To move the cursor and determine its position.	To move the cursor and determine its position.	To move the cursor and determine its position.
RETURN Button	To return to the previous operation in the setup menu.	To return to the previous operation in the setup menu.	To return to the previous operation in the setup menu.	To return to the previous operation in the setup menu.
SETUP Button	To call up the setup menu.	To call up the setup menu.	To call up the setup menu.	To call up the setup menu.
SKIP Buttons	To skip titles/chapters/ tracks.	• To skip tracks.	To skip tracks.	To skip tracks. (DivX® media files) To skip chapters. (DivX® video files)
SEARCH Buttons	To search forward/ backward through a disc. To begin slow forward/ slow reverse.	To search forward/ backward through a disc. To begin slow forward.	To begin fast forward/ reverse search. (except JPEG)	To search forward/ backward through a disc. To begin slow forward.
STOP Button	To stop playback.	To stop playback.	To stop playback.	To stop playback.
PLAY Button	To begin playback.	To begin playback.	To begin playback.	To begin playback.
STILL/PAUSE Button STILL/PAUSE	To pause playback. To advance playback frame by frame.	To pause playback. To advance playback frame by frame.	To pause playback.	To pause playback. To advance playback frame by frame.
GROUP Button	To begin playback from a desired group. (DVD-Audio)	_	_	_
SUPER AUDIO CD SET UP Button	_	_	To select the Super Audio CD setup. (Super Audio CD)	_
PAGE Buttons	To select a desired background display image for playback. (DVD-Audio)	_	_	_

– 10 – EN

Front Panel Display

(DVD, Video CD, DivX®)

TL./GR.: Title or GroupTR./CP.: Track or Chapter

the state of Resume.

The present display state is shown.

To change to the display of a title

please press the DISPLAY button in

Lights up when the progressive scan system is activated. Lights up when the disc playback comes to a pause. Lights up when playing back in slow mode. -

Lights up when the inserted disc is being play back.

TL./GR.

P.SCAN DVD

• SACD: Super Audio CD

CD

 DVD: DVD-Video, MP3, JPEG, WMA, DivX® on DVD-R/RW • DVD A: DVD-Audio

Displays a type of the disc which is on the tray.

ALL

A-B

• CD: Video CD, Audio CD, MP3, JPEG, WMA, DivX® on CD-R/RW

Lights up when the repeat function is on.

Lights up when the ALL repeat function is on. Lights up when the A-B repeat function is on.

Lights up when you have selected the audio file (CD/MP3/WMA/DVD-Audio) on the

programme screen.

Displays the chapter (title) or track number. In case the chapter (title) or track number is over 100, displays "- -'

Displays the elapsed time of the chapter (title) or track. (The display of 10 hours or more cannot be performed.) Selected HDMI output mode is displayed.

Displays during Operation

	88	8		Power on
	8:8	8	88	Power off
	88	8		Tray open
	8:8		88	Tray closed
	0.0	8		Loading the Disc
				No disc inserted or cannot read
	0:0	8	80	HDMI output mode (480p/576p) is
	0:0	6	80	selected. (576p is displayed after 480p)
88	0:8	8	80	HDMI output mode (720p) is selected
	0:0	8		HDMI output mode (1080i) is selected
		8	88	HDMI output mode (1080p) is selected
	0:6			HDMI output mode (OFF) is selected
	8			Super Audio CD setup (2CH AREA) selected

	8:0			Super Audio CD setup (MULTI-CH AREA) selected
88				Programme playback is set
		8		Programme playback setting group (folder) is selected
88	6:6		88	Programme playback setting ALL CLEAR is selected
68	88	<u>E</u> :		Random playback is set
88	88		88	All group playback setting

NOTES:

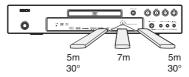
- The front panel display has blinked while setting the programme playback.
- "P**-•••" is displayed in the front panel display while setting the programme playback. ("**" is programme number, "..." is track number.)
- "A" is displayed in front panel display while selecting the audio file (CD, MP3, WMA, DVD-Audio).
- "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.
- "A-PLAY" is displayed in the front panel display while setting the all group playback.

Using a Remote Control

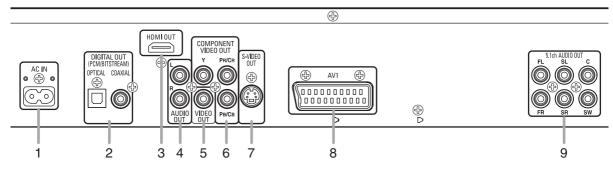
Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote control and the remote sensor on the unit.
- · Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the remote sensor of the
- · Remote control for different devices can interfere with each other. Avoid using remote control for other equipment located close to the unit.
- · Replace the batteries when you notice a fall off in the operating range of the remote control.

- The maximum operable ranges from the unit are as follows:
- Line of sight: approx. 7m
- Either side of the centre: approx. 5m within 30°
- Above: approx. 5m within 15°
- Below: approx. 3m within 30°



Description - Rear Panel



1. AC IN Terminal

Connects the AC cord to supply the power.

2. 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 centre).

3. HDMI OUT Jack

Use an HDMI connection cable (commercially available) to connect to a display with an HDMI compatible port.

4. 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.

5. VIDEO OUT Jack

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

6. 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 C_B/P_B , C_B/P_B and Y video. Along with S-Video, Component Video provides the best quality picture.

7. 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.

8. AV1 Jack

Use a Scart cable (commercially available) to connect to the 21-pin scart jack of a TV.

9. 5.1ch AUDIO OUT Jacks

Use speaker cables (commercially available) to connect these jacks to the 5.1ch Audio input jacks of your AV amplifier with 5.1-channel input terminals.

NOTE:

• When changing the VIDEO OUT setting (SCART, COMPONENT INTERLACE or COMPONENT PROGRESSIVE), connect to a Video jack or an S-Video jack on the TV. If the setting is changed, for example, to SCART while Component Video jacks are connected to the TV, a distorted video signal may be output (refer to page 30).

CAUTION

• Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

Selecting Progressive Scan (480p/576p or Interlaced 480i/576i) Playback

- If your TV is compatible with progressive scanning (480p/576p), connect the TV to the COMPONENT VIDEO OUT jacks of the DVD player and set VIDEO OUT to COMPONENT PROGRESSIVE in the display setting. Next, set your TV to the progressive scan mode. Refer to page 30 for instructions on changing the display setting. P.SCAN will appear on the display of the unit.
- If your TV is not compatible with progressive scan, set VIDEO OUT to COMPONENT INTERLACE by changing the display setting (refer to page 30). 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.
- · Progressive video signal will not be output from the COMPONENT VIDEO OUT while using the HDMI OUT jack.

What is Progressive Scanning?

• Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional (480i/576i) television signals.

The DCDi (Directional Correlational Deinterlacing) system of this DVD player produces smooth and natural video images, even if really dynamic, by eliminating the jagged edges. *"DCDi" is a trademark of Faroudja, a division of Genesis Microchip Inc.

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

"DTS" and "DTS Digital Surround" are registered trademarks of DTS. Inc.

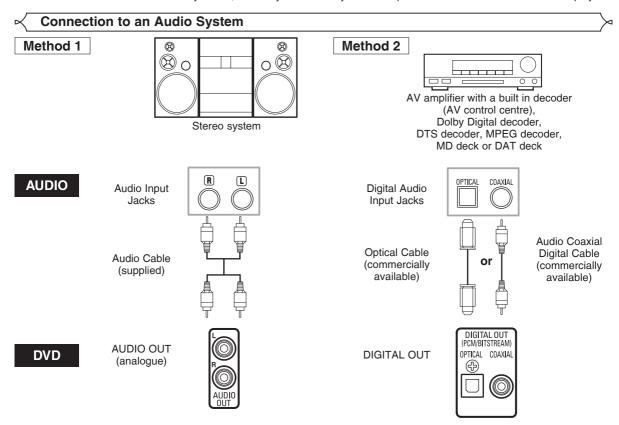
ΕN

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 connecting the player to a Dolby Digital, DTS or MPEG decoder, you can enjoy more convincing, realistic ambience with powerful and high-quality surrounding sound of a professional standard which can be heard in movie theatres. Use an Optical (commercially available) or Audio Coaxial Digital cable (commercially available) 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.



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

NOTES (for Method 2 only):

- When using an AV amplifier with a built-in decoder (AV control centre), Dolby Digital, DTS, or MPEG decoder as shown in the Method 2, set DOLBY DIGITAL, DTS or MPEG to BITSTREAM accordingly for audio output in the setup menu (refer to page 30). Set it to PCM 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, DTS and MPEG to PCM, for audio output in the setup menu for connecting to an MD deck or DAT deck (refer to page 30).
- Harsh noise that could harm your ears or the speakers is generated when a DVD recorded in DTS is played back while using a decoder, etc., that is not DTS-compatible.
- When playing back a copyright-protected 96kHz linear PCM DVD, the digital sound will be down sampled at 48kHz, even if you set LPCM SELECT to OFF (refer to page 30).
- Super Audio CD sound is not output from the DIGITAL OUT jacks.

Optical cable (commercially available)

• Optical cable (commercially available) may be damaged when bent at sharp angles. Ensure cables are coiled in loops with a diameter of 15 cm or more when storing them.

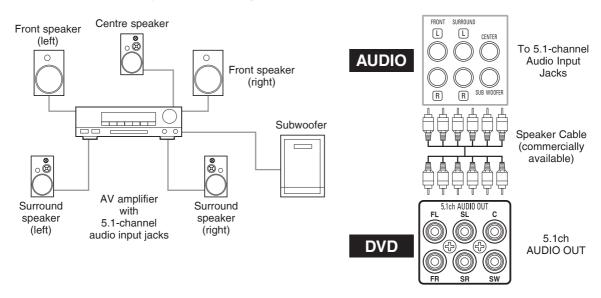
-13-

- Use a cable which is 3 m 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.

Connection to 5.1-channel Surround Sound System

Analogue 5.1-channel audio signals can be output from the DVD player.

The multichannel audio signals recorded in packed PCM and the multichannel Super Audio CD can be played back when an AV amplifier equipped with analogue 5.1-channel audio inputs is connected.

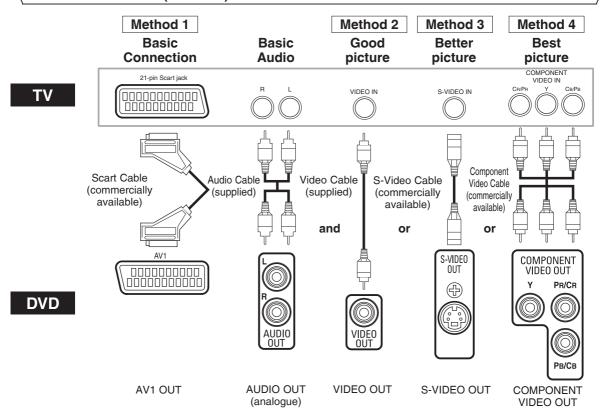


NOTES:

- For 5.1-channel connections, set ANALOG AUDIO to MULTI CHANNEL in the setup mode and adjust Speaker Configuration, DELAY TIME and CHANNEL LEVEL settings (refer to pages 31-32).
- You can enjoy high-quality analogue sound by cutting off the video signal. Press the **PURE DIRECT** button on the front panel.

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Connection to a TV (for video)



- Method 1 DVD Player + TV with 21-pin Scart Input Jack
- Method 2 DVD Player + TV with Video Input Jack
- Method 3 DVD Player + TV with S-Video Input Jack
- Method 4 DVD Player + TV with Component Video Input Jacks

NOTES:

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

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

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

Even if your TV does not have RCA type audio and video input jacks, it is still possible to connect this DVD player to your TV's 75 ohm coaxial antenna terminal using an optional Stereo Audio/Video RF Modulator (commercially available). 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.

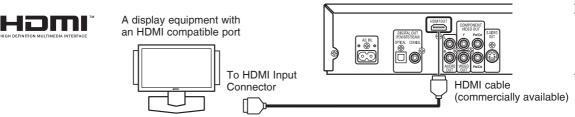
NOTE:

• 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.

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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, DVD-Video, and the multi-channel sound of DVD-Audio.



■ Actual output modes by media

	HDMI AUDIO Setting				
			NNEL	MULTI CHANNEL	
		DOLBY DIGITAL/D	DOLBY DIGITAL/DTS/MPEG Setting		DTS/MPEG Setting
	Audio Recording Format	BITSTREAM *1	PCM	BITSTREAM *1	PCM *2
	Dolby Digital	Dolby Digital	2 channel PCM	Dolby Digital	Multi PCM
DVD Vista	DTS	DTS	2 channel PCM	DTS	Multi PCM
DVD-Video	MPEG	MPEG	2 channel PCM	MPEG	Multi PCM
	LPCM	2 channel PCM	2 channel PCM	Multi PCM	Multi PCM
D)/D Assalia	LPCM or PPCM (with CPPM) *3 *5	2 channel PCM	2 channel PCM	Multi PCM	Multi PCM
DVD-Audio	LPCM or PPCM (without CPPM)	2 channel PCM	2 channel PCM	Multi PCM	Multi PCM
D: V®	Dolby Digital	Dolby Digital	2 channel PCM	Dolby Digital	2 channel PCM
DivX®	MP3/MP2	2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM
Audio CD		2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM
Video CD		2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM
MP3/WMA		2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM
Super	MULTI-CH AREA *4	<u> </u>	_	_	_
Audio	2CH AREA *4	_	_	_	_
CD	CD AREA	2 channel PCM	2 channel PCM	2 channel PCM	2 channel PCM

- *1 If the connected equipment is not compatible with HDMI BITSTREAM, signals are output on PCM.
- *2 If the connected equipment is not compatible with HDMI Multi PCM, signals are output on down mixed PCM.
- *3 If the connected equipment is not compatible with HDMI ver. 1.0, signals are not output.
 *4 Sounds recorded on the MULTI-CH/2CH AREA of Super Audio CDs are not output.
- *5 Transfer of signal from DVD audio discs that are copyright-protected by CPPM is only possible if both devices are HDMI Ver.1.1 compatible. This player is HDMI Ver.1.3 compatible.

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 HDCP-incompatible display equipment, the image will not be viewed properly.
- When the PURE DIRECT button on the front panel is turned on, not only HDMI images but sounds are not output (refer to page 17).
- 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 via 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.
- When playing a Super Audio CD with an HDMI connection, audio cannot be transferred beyond the CD layer. Make an analogue connection for this.
- 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.

"HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC."

Connecting the AC Cord

After you made all necessary connections, connect the AC cord to the AC inlet. Then connect the AC cord to the AC outlet.

			>
DVD-V DVD-A VCD	Super Audio CD	CD	MP3
	JPEG	WMA	DivX®

Getting started

- Turn on the power of the TV, amplifier and any other components which are connected to the DVD player.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.
- Press the **POWER ON** button.
 - P-ON will appear briefly on the display panel.
- Press the OPEN/CLOSE button to open disc loading tray.
- Place the disc on the tray, with the label facing up.
- 4 Press the **PLAY** button.
 - The tray will close automatically, then playback will start from the first chapter or track of the disc. If the playback does not start automatically, press the PLAY button.
 - When you play back the DVD with a title menu, it may appear on the screen. In this case, refer to "Title Menu" on page 18.
- **5** Press the **STOP** button to stop playback.

NOTES:

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



- With DVDs that use some titles for playback programme signals, playback may start from the second title, or it may skip these titles.
- During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- The operation may vary when you play back DVDs with disc menu or Video CDs with PBC or DivX® video files. Refer to the manual accompanying the disc for details.

CANCELLING AND CALLING BACK PBC FUNCTION

VCD

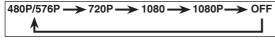
- 1 Insert a Video CD.
- 2 Press the STOP button.
- Press the Numeric buttons to enter the desired Track number.
 - PBC function is now cancelled and the playback of the Video CD will start.
- 4 To call back PBC function, press the **STOP** button twice, and then press the **PLAY** button.
 - The title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

HDMI Setup

■ Press the **HDMI** button on the front panel to select the HDMI output mode.

The output mode changes as follows every time the **HDMI** button is pressed.

 The HDMI indicator on the front panel lights up when HDMI output mode is on.



480P/576P (Default):

Video output from the HDMI OUT jack at 480p/576p. 720P: Video output from the HDMI OUT jack at 720p. 1080: Video output from the HDMI OUT jack at 1080i. 1080P: Video output from the HDMI OUT jack at 1080p. OFF: No video outputs from the HDMI OUT connector.

NOTES:

- Video and audio signals may be distorted temporarily when switching to/from the HDMI output mode.
- Use a display equipment with an HDMI-compatible port.
- The HDMI indicator on the front panel flashes when you select the HDMI output mode but there is no HDMI cable.
- If you turn on the pure direct mode, both video and audio signals through the HDMI output will be cut off (press the PURE DIRECT button again to recover).
- You can check the HDMI connection status by pressing the DISPLAY button during playback with the HDMI output mode (refer to page 26).
- 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 (refer to page 11) while the actual output resolution will be indicated by performing the on-screen display as described in NOTE FOR HDMI DISPLAY on page 26.
- Actual output signals for each HDMI mode vary with the compatibility of the connected display device.
- You cannot select the HDMI output mode when the setup menu is on the TV screen.

Pure Direct Mode

Press the **PURE DIRECT** button on the front panel to output an analogue audio signal only (no analogue video and HDMI signals will be output and the display will be turned off). The higher quality sound will be achieved.

NOTES:

- When the buttons below are pressed, the pure direct mode will be released.
 - **OPEN/CLOSE** button (on both the remote and the front panel), **SETUP** or **DISPLAY** button (on the remote), **ON/STANDBY** or **PURE DIRECT** button (on the front panel).
- The PURE DIRECT button will not function while displaying the setup menu.
- If you turn on the pure direct mode while selecting HDMI mode, both video and audio signals will not be output.

Brightness of the Front Panel Display

- Press the DIMMER NTSC/PAL 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 33.
- When you turn on the power next time, the brightness of the front panel display will be as set in setup menu.

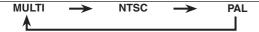
TV TYPE

Select a suitable video system according to the format of the TV you connected.

- Stop playback.
- Press the DIMMER NTSC/PAL button on the front panel more than 3 seconds.

The video system will be displayed on the front panel display and TV screen.

Press the DIMMER NTSC/PAL button within 5 seconds, and select the desired video system. The video system will be changed as follows every time the DIMMER NTSC/PAL button is pressed.



 If it is left untouched for more than 5 seconds or any other buttons are pressed, the unit will switch back to the normal status.

NOTES:

- If the video system setting does not fit to the TV you connected, the picture will be distorted.
- If you turn off the unit, the video system will go back to the one set for the TV TYPE on the display menu (refer to page 29).

General Features DVD-V DVD-A DivX

DVD and $DivX^{\circ}$ video file may contain menus to navigate the disc and access special features. Press the appropriate **Numeric** buttons or use the **Cursor** buttons (\blacktriangle / \blacktriangledown / \blacktriangleleft / \blacktriangleright) to highlight your selection in the DVD main menu and press the **ENTER** button to confirm. **NOTES:**

- Unless otherwise stated, all operations described are based on remote control use. Some operations can be carried out using the menu bar on the TV screen.
- The Numeric buttons are invalid in menu of DivX® video file.

Disc Menu

DVD-V

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

Title Menu DVD-V DVD-A

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

VCD

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

DivX®

- Press the Cursor buttons (A or V) to choose a track, then press the PLAY or ENTER button.
- 2 Press the TOP MENU button.
 - Title menu will appear.
- If the title menu is available on the file, audio language, subtitle options, chapter for the title and other options will appear for selection.
- 4 Press the Cursor buttons (▲ / ▼ / ◀ / ▶) to select an item, and the ENTER button to confirm the selection.

CALLING UP A MENU SCREEN DURING PLAYBACK

DVD-V DVD-A DivX®

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

NOTES:

- Contents of menus and corresponding menu operations may vary among discs. Refer to the manual accompanying the disc for details.
- During playback or resume stop state on the DivX[®] video file, it is possible to call up a menu.

DVD Audio Playback

DVD-A

PLAYBACK OF ALL GROUPS

- In stop mode, press the **MODE** button.
 - The ALL GROUP screen appears.
- Press the PLAY button to begin playback.



• "A-PLAY" is displayed in the front panel display at step

PLAYBACK FROM A DESIRED GROUP

- During playback or in the stop mode, press the GROUP button.
- Press the Numeric buttons to select a group.
 - The group will be located and playback will start.



PAGE SELECTION

Some DVD-Audio discs that include still images feature a selection of images you can choose from.

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



1

PLAYBACK OF THE BONUS GROUP

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

- In stop mode, press the GROUP button to open the group search screen.
- Press the Numeric buttons to select a bonus group number.
 - The password popup window appears.
- Press the Numeric buttons to enter the 4-digit password.
 - When the correct password is entered, playback starts from the top of the bonus group.

NOTES

- In some cases the password window is displayed on the menu screen. Follow the instructions given on the screen.
- Once the password is entered, playback will be repeated until the disc is removed from the disc tray.

– 18 – EN

▶►Button

I▶ 2

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Still / Pause DVD-V DVD-A VCD Super Audio CD CD MP3 JPEG WMA DivX®

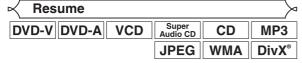
1 During playback, press the STILL/PAUSE button.

 Playback will pause and sound will be muted.



☑ 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 29).



■ During playback, press the **STOP** button.

 Resume message will appear on the TV screen.



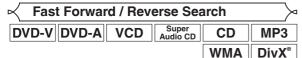
Press the **PLAY** button, <Example point at which playback was stopped.

<Example: DVD>

• To cancel resume, press the STOP button again.

NOTES:

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



- During playback, press the or > button repeatedly to select a desired forward or reverse speed.
 - For DVDs, fast forward or reverse search speed is different depending on the disc. The approximate speed is 1(x2), 2(x8), 3(x20), 4(x50) and 5(x100).



- For Video CDs, Super Audio CDs, Audio CDs, MP3, WMA and DivX®, the approximate speed is 1(x2), 2(x8) and 3(x30).
- For Super Audio CDs, Audio CDs, MP3 and WMA, sound will be output at any speed of fast forward and reverse search.
- To return to normal playback, press the PLAY button.

NOTE:

 For some DivX[®] files, Fast Forward/Reverse Search may not function.

Slow Forward / Slow Reverse

DVD-V DVD-A VCD DivX®

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 a desired speed.
 - Slow forward or reverse speed is different depending on the disc.

The approximate speed is 1(1/16), 2(1/8), and 3(1/2).

1 To return to normal playback, press the PLAY button. NOTES:

- On DVDs, set STILL MODE to FIELD on the display menu if pictures in the slow playback mode are blurred (refer to page 29).
- Only Slow Forward is available when playing back Video CD and discs with DivX® files.



- During playback, press the STILL/PAUSE button.
 - Playback will pause and sound will be muted.
- The disc advances frame by frame each time the STILL/PAUSE button is pressed.
- To exit step by step playback, press the PLAY button.
 NOTE:
 - On DVDs, set STILL MODE to FIELD on the display menu if pictures in the pause mode are blurred (refer to page 29).



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

During playback, press the MODE button.



Press the Cursor buttons

(▲ or ▼) to switch among items.

- 3 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.
- 4 To return to normal playback, press the RETURN button.

NOTES:

- The default settings for all items in Picture Control are "0".
- The setting display will disappear in 10 seconds of no use.
- This function cannot be used during Dialog Speed (refer to page 20).
- If you return all items to the default settings, select "INITIALIZE" at step 2.



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.

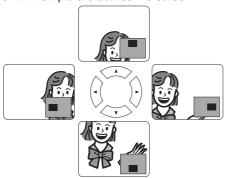
DISC PLAYBACK

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

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



■ Use the Cursor buttons (▲ / ▼ / ◀ / ►) to move the zoomed picture across the screen.



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

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



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 setting appears.



- OFF appears on the TV screen.
- Press the ENTER button or the Cursor buttons (◀ or ▶) to switch among ﴾ (x1.3), ♪ (x0.8) and OFF.
 - Plays back approximately at 0.8 times of normal playback.
 - Plays back approximately at 1.3 times of normal playback.

To return to normal playback, press the PLAY button.

- Every time you press the STOP button, the setting will be turned OFF.
- Subtitles can be viewed during this function.
- Picture Control, Audio Language and Virtual Surround 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, OPTICAL or HDMI), the LPCM sound (2 channel) will be output.
- When using Dialog Speed function with Multi-channel digital outputting, the analogue output sound will be fixed at 2 channel.
- When using digital audio connection, only the Dolby Digital sound will be available.
- This feature does not work when the video format of the inserted disc does not match to the output video format setting of this unit (playing NTSC disc while TV TYPE is set to PAL etc.).

Slide Show Mode

JPEG

You can switch to slide show mode during playback.

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

▼ Title / Chapter Search

DVD-V DivX

BY USING THE SEARCH MODE BUTTON

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



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

BY USING THE SKIP BUTTONS I◀◀ ▶▶I

During playback, press the **SKIP** ►►I 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 during playback DVD. Track number keeps being displayed during playback DivX® video file.
- If the SKIP I◄◄ or ►►I button is pressed while the playback is paused, the playback after skipping to the next chapter will be also paused.

NOTES:

- Depending on the disc, the Numeric buttons can be used to search for a desired chapter by entering the chapter number directly. Refer to the manual accompanying the disc.
- A disc that does not contain chapters within titles, the SKIP I◄◀ and ▶▶I buttons change the titles.

Track Search DVD-A VCD Super Audio CD CD MP3 JPEG WMA DivX®

There are two ways to begin playback a disc at a specific track.

BY USING THE SEARCH MODE BUTTON

Press the **SEARCH MODE** button.



The track search display appears.

- Within 30 seconds, select a desired track number using the **Numeric** buttons.
 - For 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 singleor 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 I◀◀ ▶▶I

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

- Track number will appear briefly on the front panel display.
- If the SKIP I

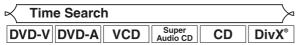
 or

 or

 button is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

NOTES:

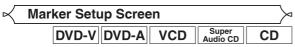
- The SKIP I◄◄ and ▶►I buttons are not available when playback is stopped.
- When the SKIP i◄◄, ►►I is pressed during playback DivX® video file, and if it does not change previous/next track, press the MENU button.



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



- Within 30 seconds, enter a desired 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, "0:0_:__" appears on the time search screen if the total time of the title or track is less than 10 minutes.
- If Press the CLEAR button to erase an incorrect input. NOTE:
 - For some DivX® files, Time Search may not function.



You can use markers to memorise your favourite places on a disc.

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



- Press the Cursor buttons (◄ or ►) to select the number of the marker (1-10) and ensure that "__ _ : _ : _ " appears on the display.
- When the disc reaches the point where you want to remember, press the **ENTER** button.
 - The title or track and elapsed playback time will appear on the TV screen.
- ☑ 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.
- Fress 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 ►), select the marker number to be cleared and press the CLEAR button.
- · You can mark up to 10 points.

Repeat

The REPEAT button is available only during playback.

REPEAT TITLE / CHAPTER

DVD-V DivX[®]

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

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



NOTES:

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



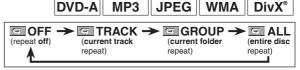
To activate Repeat function, press the **REPEAT** button during playback

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



NOTES:

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



NOTES:

- In the track or group repeat, repeat setting will be cleared when moving to other track or group.
- When the DivX® media file change to DivX® video file while the repeat setting is done, the repeat setting will be cleared.
- For DVD-Audio, ALL repeat is effective only when all groups are being played back.

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



A- appears briefly on the TV screen.

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



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

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 DivX® video files), or current track (for DVD-Audio, Video CD, Super Audio CD, Audio CD and disc with DivX® media files).
- A-B Repeat playback is not available with some scenes on DVD.
- To cancel the A point which was set, press the CLEAR button.
- A-B Repeat playback does not function during title, chapter, track, group or all repeat playback.
- For some DivX[®] files, A-B Repeat playback may not function

Programme Playback

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

DVD-A

CD

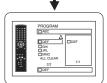
- 22 -

- In stop mode, press the MODE button repeatedly until the programme screen appears.
 - The group selection screen will appear.
- Press the Cursor buttons (▲ or ▼) to select a group, then press the ENTER button.
 - The track selection screen will be displayed.
 - It takes approximately 5 seconds until the track selection screen appears.
- Press the Cursor buttons (A or V) to select a track, then press the ENTER button.
 - Press the CLEAR button to erase the most recently entered track.
 - Press the Cursor button (◄) to go back to the group selection screen from the track selection screen.
- Press the PLAY button to play back the programmed tracks.
- 11 In stop mode, press the MODE button.
 - The programme screen will appear.
- Press the Cursor buttons (▲ or ▼) to select a track, then press the ENTER button.
 - Press the CLEAR button to erase the most recently entered track.
- Press the PLAY button to start programmed playback.

MP3 JPEG WMA

- In stop mode, press the MODE button.
 - The programme 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 programme.
 - Press the CLEAR button to erase the most recently entered track.
 - The programmed track is displayed in the right-hand screen.
 - If the entire programme cannot be displayed on the screen, "▼" appears.
 - Pressing the Cursor button (◄)
 will show a list of folders that belong to the hierarchy which is one-level higher than the currently selected folder.





- Press the **PLAY** button to start programmed playback.
 - During the display of the programme screen, press the RETURN button, and the stop screen will show up with the programme contents in memory.

NOTES:

- Press the STOP button once and then the PLAY button again, playback will restart from the point where the STOP button was pressed. (Programme continued.)
- Press the STOP button twice and then the PLAY button again, playback will restart from the first track in the usual way. Your programme is still stored until either the disc tray is open or power is turned off.
- Up to 99 tracks can be entered.
- To erase tracks in the programme all together, select ALL CLEAR at the bottom of the list at step 2 and, "A-CLEAr" is displayed on the front panel display at that time.
- To repeat the current track in the programme, press the REPEAT button repeatedly until TRACK appears during playback. To repeat the entire programme, press the REPEAT button repeatedly until ALL appears during playback.
- If eight or more tracks were set in a programme, use the SKIP I◄◄ or ▶▶I button to see all the tracks.
- When selecting the folder:
- Press the Cursor button (►) when you want to go to the next hierarchy.
- Press the Cursor button (◄) when you want to go back to the previous hierarchy (except for the top hierarchy).
- Even if an inserted disc contains mixed MP3, JPEG and WMA files, 99 tracks in combination of MP3, JPEG and WMA files can be entered.
- The front panel display has blinked while setting the programme playback.
- "F-***" is displayed in the front panel display while selecting the group (folder). ("***" is group (folder) number.)

Random Playback

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

In stop mode, press the RANDOM button.

The random screen will appear.
 Press the Cursor buttons

(▲ or ▼) to select a desired group to play back randomly,

then press the **ENTER** or **PLAY** button.



DVD-A

Random playback will start.

EN

Super JPEG WMA MP3 CD Audio CD

- In stop mode, press the RANDOM button.
 - The random screen will appear.
- 2 Press the PLAY button to start random playback.



<Example: Audio CD>

NOTES:

- To repeat the current track in the random selection, press the **REPEAT** button repeatedly until TRACK appears during playback. To repeat the entire random selection press the **REPEAT** button repeatedly until ALL appears during playback.
- · You cannot go back to the previous track during random playback.
- For a disc containing mixed MP3, JPEG and WMA files, random playback of those files will be performed.
- "SHUFFLE" is displayed on the front panel display at step 11.



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 a desired group (folder) or track.
 - To return to the previous screen, press the Cursor
 - 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 recognised.
- Maximum of 999 files can be recognised.
- Up to 8 hierarchies can be recognised.
- If the track extends beyond the scope of screen, a down arrow "▼" appears, indicating that the user can view another part on the previous page. The current page number and the number of total pages are shown on the left of the down arrow "▼".
- 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 DVD-R/RW or CD-R/RW drive or the writing software.
- For MP3 and WMA files recorded in Variable Bit Rate (VBR), the unit may not display the actual elapsed time.

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

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

Applicable JPEG file		Remarks
Size of image	Upper limit: 6300 x 5100 dots Lower limit: 32 x 32 dots	A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen.

Amalia	his MMA file	Demonto
Applicable WMA file		Remarks
Sampling	44.1kHz	Those frequencies are
frequency	48kHz	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

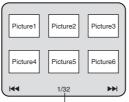
- This DVD player can play back images and sounds from data recorded in MP3 and JPEG formats on DVD-R/RW or CD-R/RW discs.
- A file with an extension of ".mp3 (MP3)" is called an MP3 file
- A file with an extension of ".jpg (JPG)" or ".jpeg (JPEG)" is called a JPEG file.
 - The DVD player can run an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

Kodak Picture CD

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

This unit confirm to ver.7.0 of Kodak Picture CD. For details of Kodak Picture CD, contact a shop that provides photo developing service of Kodak Inc.

- When Kodak Picture CD is inserted in the DVD player, Kodak Picture CD menu appears automatically on the TV screen.
 - If all menu items cannot be displayed on the screen scope, "▶►I" appears at the right bottom of the screen, indicating that the user



Current track number / the number of total tracks

- can view remaining items on the next page. If "I<="""
 appears, it indicates that the user can view other items
 on the previous page. The track number of the currently
 highlighted item and the total tracks are shown at the
 centre bottom of the screen.
- If "▶►I" is shown at the right bottom, use the SKIP ▶►I button to view the next page. If "I◄◄" is shown at the left bottom, use the SKIP I◄◄ button to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.
- Press the Cursor buttons (▲ / ▼ / ◀ / ►) to 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.
- back from the selected track and go to the next one in turn

 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 (◀ or ►) or ENTER button to switch between NORMAL (100%) and SMALL (95%).
- Progressive JPEGs (JPEG files saved in the progressive format) will not be played back on this DVD player.
- High resolution JPEG files take longer to be displayed.
- The size change mode may have no effect on some files (e.g. files with a small picture size).
- In stop mode, press the MENU button. Kodak Picture CD menu appears.

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 recognised.
- 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 recognised.
- This unit cannot play back copyright protected WMA files.

✓ DivX[®] Playback

DivX[®]

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

- Press the Cursor buttons (▲ or ▼) to select the desired group (folder) or track.
 - To return to the previous screen, press the Cursor button (◄).
 - If a group (folder) is selected, press the Cursor button
 (►) or ENTER button to go on to the track selection
 screen. Press the Cursor buttons (▲ or ▼) to choose a
 track, then press the PLAY or ENTER button.

- If a track is selected, press the PLAY or ENTER button to start playing back tracks. The selected track and the subsequent tracks will be played back.
- · When selecting the folders:
 - Press the Cursor button (►) when you want to go to the next hierarchy.
 - Press the Cursor button (◄) when you want to go back to the previous hierarchy (except for the top hierarchy).
- Press the TOP MENU button to return to the first item.

Press the **STOP** button to stop playback. **NOTES:**

- DivX® is a codec (compression/decompression) that can compress images to a very small amount of data. The software can compress video data from almost any sources to the size that can be sent on the Internet without compromising visual quality of the images.
- A file with an extension of "avi" or "divx" is called a DivX[®] file.
 All files with the "avi" extension are recognised as MPEG4.
- Files with extension other than ".avi" and ".divx" will not be listed on the DivX® menu. However, unplayable groups or tracks may be displayed, depending on the recording conditions.
- Even if the file has an extension of either ".avi" or ".divx", this player cannot play it back if it is recorded in the format other than DivX®.
- Folders are known as Groups; files are known as tracks.
- A symbol of sis shown on the top of DivX® file.
- Maximum of 255 folders can be recognised.
- Maximum of 999 files can be recognised.
- If the track extends beyond the scope of screen, a down arrow "▼" appears, indicating that the user can view another part on the previous page. The current page number and the number of total pages are shown on the left of the down arrow "▼".
- The name of group and track can be displayed up to 25 characters. Unrecognisable characters will be replaced with asterisks. The ninth and deeper hierarchies cannot be displayed.
- You can play back the disc recorded in multi-session.
- Playback will be paused if the file list is displayed during the playback.
- It may take a while for audio and images to be output after you inserted a disc and pressed the PLAY button.
- When playing back the files recorded in high bit rates, the images can be interrupted on some occasions.
- Although DivX® logo has been obtained for this player, it
 may not be able to play back some data, depending on the
 disc characteristics, bit rates, or audio format settings, etc.
- Use the software recognised by DivX®, Inc. when you make DivX® files.
- When using tools or utilities to make up DivX[®] files, read their instruction manual beforehand.
- A DivX® file whose file size exceeds 2GB cannot be played back.
- If a large-sized DivX[®] file is selected, it may take a while to start the playback (over 20 seconds sometimes).
- Constant bitrate of image between 500 kbps and 4,000 kbps is recommended if you make DivX[®] files on a CD-R/RW.
- If DivX® files written on CD discs cannot be played back, rewrite them on a DVD disc and try to play back.
- For more information for DivX®, please visit: http://www.divx.com
- If you insert a DVD-R/RW or CD-R/RW with DivX® files that are mixed with MP3, JPEG, or WMA files, the Playback Media Selection screen will be displayed.
 Please select Video and proceed to step ...



- Press the TOP MENU button to call up the Playback Media Selection screen in stop mode.
- If you select Audio & Pictures, instead of Video on the Playback Media Selection screen, the DVD player can play back MP3/JPEG/WMA files. Refer to page 23 for details.

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

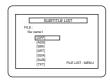
Applicable	e DivX® file	Remarks	
Playable Codec of AVI files	Plays all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.	They are recognised as MPEG4.	
Maximum size of image	720 x 480 @30fps 720 x 576 @25fps		
Sampling frequency of audio	8kHz - 48kHz	It is prohibited to record MP3 sound on a digital device when the connection is made digitally.	
Audio type	MPEG1 audio layer 3 (MP3) MPEG1 audio layer 2 Dolby Digital	MP3 files recorded at fixed bit rate of 32kbps or higher are recommended.	

✓ DivX[®] Subtitle

DivX®

The subtitle created by the user can be displayed during DivX® media file playback.

After select the DivX® media file, the SUBTITLE LIST will appear except when the "DivX SUBTITLE" setting is "OFF". Refer to "Language Setting" on page 29.



- Press the Cursor buttons (▲ or ▼) to select the desired extension you want to display, then press the ENTER button. DivX[®] media file with the subtitle starts playback. The subtitle cannot be displayed when the setting is "OFF".
 - If there is more than one extension, the extension selection appears in the SUBTITLE LIST.

NOTES:

- DivX® subtitle can only be displayed according to the same name with an extension of the DivX® file name.
- Files whose extension is other than ".ASS", ".ass", ".SMI", ".smi", ".SRT", ".srt", ".SSA", ".ssa", ".SUB", ".sub", ".TXT" and ".txt" will not be listed in the SUBTITLE LIST.
- This unit cannot be recognised if the DivX[®] file and its subtitle file are not in the one folder.
- The subtitle may not be displayed if the file size is too large.
- To change the subtitle, refer to "Subtitle Language" on page 27 if multiple subtitles are available.
- The subtitle cannot display if the on-screen information is displayed.

- If "DivX SUBTITLE" is set to "OFF" in LANGUAGE menu, the SUBTITLE LIST will not be displayed even if you select a DivX® media file with created subtitle.
- Unrecognisable characters will be replaced with asterisks.
- DivX® subtitle function is invalid to DivX® video file.
- Some files whose extension is ".SUB", ".sub", ".TXT" and ".txt" may not be displayed.

Changing the On-Screen Display

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

DVD-V

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



- 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.
- (\$\sigma\$C: Chapter repeat/\$\sigma\$T: Title repeat/\$A\$\sigma\$B: A-B repeat)
- If you are playing back a two-layered disc, the layer number will also be displayed.
 (L0: Layer 0 is being played back. L1: Layer 1 is being played back.)
- 4 Press the **DISPLAY** button again.
 - Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on page 26.)
- 5 Press the **DISPLAY** button again to exit.

DVD-A

- 11 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.
- 2 Press the **DISPLAY** button again.
 - Current group number/total groups, elapsed time and remaining time of the current group, and current playback status will be displayed.
- Press the **DISPLAY** button again.





- playback status will be displayed.
- Current repeat setting appears on the display bar only when the repeat setting is active.
 (¬T: Track repeat/¬G: Group repeat/¬¬B: A-B repeat)
- If you are playing back a two-layered disc, the layer number will also be displayed.
 (1.0.1 aver 0 is being played back 1.1.1 aver 1 is being
- (L0: Layer 0 is being played back. L1: Layer 1 is being played back.)
- 4 Press the **DISPLAY** button again.
 - During all group, programme or random playback, each playback status will be displayed when you press the DISPLAY button. Then press the DISPLAY button again.
 - Current HDMI status will be displayed during the HDMI output mode. (Refer to NOTE FOR HDMI DISPLAY on page 26.)
- **5** Press the **DISPLAY** button again to exit.

Super Audio CD VCD CD

- 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 repeat)

2 Press the **DISPLAY** button again.

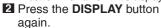
- Current track number/total tracks, elapsed time and remaining time of the entire disc, and current playback status will be displayed.
- · Current repeat setting appears on the display bar only when the Repeat setting is active. (¬T: Track repeat/¬A: All tracks repeat/A¬B: A-B repeat)
- On Super Audio CDs and Audio CDs, when you are playing back a disc in programme or random mode, PROGRAM (or RANDOM) will be displayed.

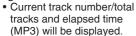
3 Press the **DISPLAY** button again.

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



· Current file name will be displayed.





 Current repeat setting appears only when the Repeat setting is active.

(¬T: Track repeat/¬A: All (disc) repeat/¬G: Group repeat).

 When you are playing back a disc with MP3 or JPEG files in programme or random mode, ITE PROGRAM (or RANDOM) will be displayed.

3 Press the **DISPLAY** button again.

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

WMA TRACK 01 ▶ TITLE NAME Þ ARTIST NAME •

TR 1/36 0:01:15

ÇT ▶

■ Press the DISPLAY button during playback.

- · Current file name will be displayed.
- 2 Press the **DISPLAY** button again.
 - · Title name based on tag information of currently playedback file will be displayed.
- 3 Press the **DISPLAY** button for the third time.
 - · Artist name based on tag information of currently played-back file will be displayed.
- 4 Press the **DISPLAY** button again.
 - Current track number/total tracks and elapsed time will be displayed.

 Current repeat setting appears only when the Repeat setting is active.

(¬T: Track repeat/¬A: All (disc) repeat/¬G: Group (folder) repeat).

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

5 Press the **DISPLAY** button again.

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

6 Press the **DISPLAY** button again to exit.

NOTE:

JPEG

Þ

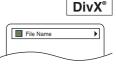
MP3

<Example: MP3>

TR 1/36 0:01:15 ←T ▶

III TRACK 01

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



TT 10/15 0:01:15 -0:05:56 C, T ▶

Press the DISPLAY button.

· Current file name will be displayed.

2 Press the **DISPLAY** button.

· Current track number/total tracks and elapsed time will be displayed.

 During playback DivX® video file, "--:--" is displayed at elapsed/remain time.

 Current repeat setting appears only when the Repeat setting is active.

DivX[®] media file: (¬T: Track repeat/¬A: All(disc) repeat/GG: Group repeat/AGB: A-B

DivX® video file: (¬T: Title repeat/¬C: Chapter repeat/ A ⊂ B: A-B repeat)

Press the DISPLAY button.

 Current chapter number/total Chapters, elapsed time and remaining time of the current

chapter, and current playback status will be displayed.

CH 10/15 0:01:15 -0:05:56 ← C ▶

• During playback DivX® video file only, this On-screen is displayed.

4 Press the **DISPLAY** button.

- · Current title number/total titles, elapsed time and remaining time of the current title, and current playback status will be displayed.
- During playback DivX® video file only, this On-screen is displayed.

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 FOR HDMI DISPLAY:

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

VIDEO INFO AUDIO INFO MAX CHANNE

-26 -ΕN

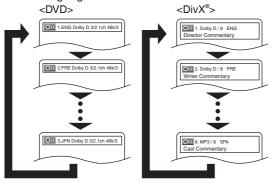
Audio Language

DVD-V DivX®

The DVD player allows you to select an audio language (if multiple language options are available) during DVD or DivX® disc playback.

1 Press the AUDIO button during playback.

Press the AUDIO button repeatedly to select your desired language.



 For DivX[®] several audio tag information exists. Some examples are shown as follows.

<Example>

Director Commentary: Audio recorded comment of the

movie director.

Writer Commentary: Audio recorded comment of the

movie writer.

Cast Commentary: Audio recorded comment of the

movie actors.

etc

NOTES:

 The sound mode cannot be changed during playback of discs not recorded in double sound.

- Some discs allow to change the Audio Language setting on the disc menu. (Operation varies among discs. Refer to the manual accompanying the disc.)
- Pressing the AUDIO button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow to change the Audio Language setting on the disc menu).
- If you choose a language that has a three-letter language code, the code will be displayed every time you change the Audio Language setting. If you choose any other languages, "---" will be displayed instead (refer to page 34).
- Audio language selection cannot be made during Dialog Speed in DVD (refer to page 20).
- If the disc has no audio language, NOT AVAILABLE will be displayed.
- If the DivX[®] file has no audio tag information, the audio tag is not displayed.

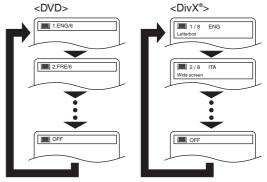
Subtitle Language

DVD-V DivX®

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

■ Press the SUBTITLE button during playback.

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



 For DivX® several subtitle tag information exists. Some examples are shown as follows.

<Example>

Letterbox: Subtitle for the letterbox version of the

movie.

Wide screen: Subtitle for the widescreen version of the

movie.

Children: Subtitle for an audience of children.

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

NOTES:

-27-

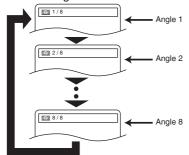
- Some discs allow the Subtitle Language setting on the disc menu. (Operation varies among discs. Refer to the manual accompanying the disc.)
- Pressing the SUBTITLE button may not work on some DVDs with multiple subtitle languages (e.g. DVDs which allow the Subtitle Language setting on the disc menu).
- If your desired language is not shown after pressing the SUBTITLE button several times, the disc does not have subtitles in that language.
- If you choose a language that has a three-letter language code, the code will be displayed every time you change the Subtitle Language setting. If you choose any other languages, "---" will be displayed instead (refer to page 34).
- If the disc has no subtitle language, NOT AVAILABLE will be displayed.
- For discs with DivX[®] files, the screen only displays the number of subtitle languages.
- If the DivX[®] file has no subtitle tag information, the subtitle tag is not displayed.

Camera Angle

DVD-V

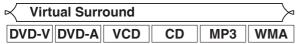
Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the $(\stackrel{\circ}{\sqsubseteq}_{1})$ icon appears on the screen.

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



NOTE:

. If ANGLE ICON is set to OFF in the others menu, the () icon will not appear (refer to page 33).



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

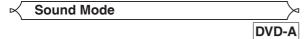
During playback, press the MODE button repeatedly until the Virtual Surround setting appears.



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

NOTES:

- · Select Virtual Surround OFF or lower the volume if the sound is distorted.
- Virtual Surround will not be effective if the sound mode is set to something other than STEREO (for Audio CD or Video CD playback only).
- This function cannot be used during Dialog Speed (refer to page 20).
- Set HDMI AUDIO and ANALOG AUDIO to "2 CHANNEL" to use this function (refer to page 31).
- The Virtual Surround setting is not available for Super Audio CDs. (It may be possible to use the Virtual Surround setting when playing back discs that include a CD area.)

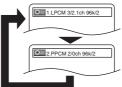


This function allows you to select a desired sound mode during DVD-Audio playback.

- Press the AUDIO button during playback.
- 2 Press the AUDIO button repeatedly to select your desired sound.

NOTE:

· When selecting a multichannel sound, it may not be mixed down in some cases even though the HDMI **AUDIO or ANALOG AUDIO** setting is 2 CHANNEL.



Stereo Sound Mode

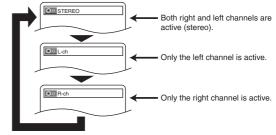
VCD CD

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

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

- only left channel is active L-ch R-ch

- only right channel is active



NOTE:

 Stereo sound mode will not be changed when playing DTS CD.

Super Audio CD Setup Super Audio CD

■ Press the SUPER AUDIO CD SET UP button repeatedly to select among MULTI-CH AREA, CD AREA, or 2CH AREA.

MULTI-CH AREA - playback in multi channel format. The number of channels depends on the disc

being played.

CD AREA - playback in the same quality with sound as normal CDs.

- playback in higher quality than that of 2CH AREA normal CD sound.

MULTI-CH AREA CD AREA front panel display

NOTES:

- The Virtual Surround setting is not available for Super Audio CDs. (It may be possible to use the Virtual Surround setting when playing back discs that include a CD area.)
- Some playback options may not be available. These will be skipped.
- MULTI-CH AREA is selected as default.

In setup menu, QUICK mode, CUSTOM mode and INITIALIZE mode are available (refer to pages 29-34). QUICK mode consists of items of which the setting menus are frequently used, and they are accompanied with **QUICK** mark. You can make all settings in CUSTOM mode.

Language Setting

Language setting can be varied with some DVDs or DivX[®] Subtitles recorded in discs.

- 11 Press the **SETUP** button in stop mode.
- Press the Cursor buttons (◄ or ►) to select CUSTOM, then press the ENTER button.
 - The CUSTOM mode will appear.
- 3 Press the Cursor buttons (◀ or ►) to select LANGUAGE, then press the ENTER button to confirm.



4 Press the Cursor buttons (▲ or ▼) to select an item, then press the ENTER button.

DIALOG (Default: ORIGINAL)

• Sets the audio language.

SUBTITLE (Default: OFF)

· Sets the subtitle language.

DISC MENU (Default: ENGLISH)

 Sets the language for DVD Menu and title menu (for DivX®).

OSD (Default: ENGLISH) QUICK

· Sets the language for the on-screen display.

DivX SUBTITLE (Default: OFF)

- Sets the DivX® subtitle language.
- **5** Press the **Cursor** buttons (▲ or ▼) to select a language, then press the **ENTER** button.
 - If OTHER is selected for DIALOG, SUBTITLE or DISC MENU, press four-digit number to enter the code for your desired language (refer to the language code list on page 34).
 - Only the languages supported by the disc can be selected.
 - For DivX SUBTITLE, if you want to display the Russian or Bulgarian subtitle, you can select either "RUSSIAN1" or "RUSSIAN2" which depends on type of the subtitle files
- Press the SETUP button to exit and activate the new settings.

NOTE:

 Language setting for DIALOG and SUBTITLE may not be available on some discs. Then use the AUDIO and SUBTITLE buttons. Details are on page 27.

Display Setting

You can change certain aspects of the DVD display screens, still mode, TV type, Progressive and HDMI settings.

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



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

- Press the Cursor buttons
 - (▲ or ▼) to select a setting, then press the **ENTER** button.
- Select 4:3 LETTER BOX. Black bars may appear at the top and bottom of the screen, depending on the proportion of the TV screen.



- Select 4:3 PAN & SCAN for a full height picture with both sides adjusted.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD player.
- Select 4:3 SQUEEZE when the TV screen is too large horizontally at 16:9 WIDE setting and when it is impossible to adjust the screen size using the TV's controls.

STILL MODE (Default: AUTO)

- Press the Cursor buttons
 (▲ or ▼) to select a setting
 (AUTO, FIELD, or FRAME), then press the ENTER button.
- This function allows you to adjust picture resolution and quality in still mode.



- An individual picture on TV screen is called as "frame", which consists of two separate images called as "field".
 Some pictures may be blurred at the AUTO setting in still mode due to their data characteristics.
- AUTO: Automatically selects the best resolution setting (FRAME or FIELD) based on the data characteristics of the pictures.
- FIELD: Select FIELD when the pictures are still unstable even if AUTO is selected. FIELD stabilises the pictures, although the picture quality may become coarse due to the limited amount of data.
- FRAME: Select FRAME to display relatively motionless pictures in higher resolution. FRAME improves the picture quality, although it may unstabilise the pictures due to simultaneous output of two field data.

TV TYPE (Default: MULTI)

- Press the Cursor buttons

 (▲ or ▼) to select a setting, then press the ENTER button.
- Select a video system setting between MULTI, NTSC and PAL



- NTSC: Select this when your
 TV's video format is N
 - TV's video format is NTSC. If NTSC is selected, output format is fixed to NTSC.
- PAL: Select this when your TV's video format is PAL.
 If PAL is selected, output format is fixed to PAL.
- MULTI: Automatically selects the suitable video out system (PAL/NTSC) according to the format of the inserted disc.
- For the discs recorded with NTSC system, the NTSC signal will be output and pictures of the discs can be viewed on an NTSC or Multi system TV.
- For the discs recorded with PAL system, the PAL signal will be output and pictures of the discs can be viewed on a PAL or Multi system TV.

NOTES:

 If the AC power cord is disconnected while the unit is turned on, the video format of opening screen is altered. To keep the format, turn the unit off before unplugging the AC power cord.

- When your TV's video format does not match the setting for the TV TYPE, the image of on-screen display will be distorted or will not be displayed at all. To bring back the on-screen display, select the corresponding system using DIMMER NTSC/PAL button on the front panel. Refer to TV TYPE on page 17.
- For the NTSC TV customers: When the unit is turned on for the first time (Default is MULTI), the opening screen is output in PAL system. Though the image will be distorted consequently, this is not a malfunction.

(The video format will be converted in NTSC system after playing back an NTSC disc once.)

VIDEO OUT (Default: SCART)

· Press the Cursor buttons (▲ or ▼) to select a setting (SCART, COMPONENT **INTERLACE or COMPONENT** PROGRESSIVE), then press the **ENTER** button.



- This setting will be effective when you exit the setup screen by pressing the SETUP button.
- When VIDEO OUT is COMPONENT PROGRESSIVE, P.SCAN appears on the DVD player's front panel display after you exited the setup screen.
- In the HDMI output mode, even when VIDEO OUT is set to COMPONENT PROGRESSIVE, signals are output always as Interlace.
- · Refer to page 12 for more details.

PROG.MODE (Default: AUTO1)

· Press the Cursor buttons (▲ or ▼) to select a mode for the progressive scan output, then press the ENTER button.



- AUTO1: mode suitable for images on the film material.
- AUTO2: mode for images on the material of 30-frame film
- VIDEO1: mode for normal video material.
- · VIDEO2: mode for video material with less movements.
- VIDEO3: mode for video material with many movements.

HDMI SELECT (Default: YCbCr)

- · Select an HDMI output mode between YCbCr and RGB.
- · When the connected equipment is not compatible with YCbCr, HDMI signal is output as RGB regardless of the setting.



other

HDMI PICTURE (Default: NORMAL)

- Select an HDMI picture mode between NORMAL and ENHANCED.
- · Select ENHANCED if the blackwhite contrast is not clear.
- · This setting is effective only for HDMI RGB output.



5 Press the **SETUP** button to exit and activate the new settings.

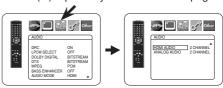
NOTES:

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

Audio Setting

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

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



other 🗀 🔝 🕜 Other

LPCM SELECT (Default: OFF)

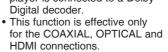
- · Set to ON when outputting in 48kHz.
- · This function is available only on digital outputting of a disc recorded in 96kHz.
- · Sounds of the DVD-Audio which exceed 96kHz will be output as 96kHz even if LPCM SELECT is set to OFF.
- This function is not effective for the HDMI sound output.

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.
- for the COAXIAL, OPTICAL and





BITSTREAM: Output by Dolby Digital.

> · For HDMI connection, if the connected equipment is not compatible with the Dolby Digital BITSTREAM, the signals are output as PCM regardless of the setting.

PCM: Convert Dolby Digital to PCM.

DTS (Default: BITSTREAM) QUICK

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

sound.

• For HDMI connection, if the connected equipment is not compatible with the



DTS BITSTREAM, the signals are output as PCM regardless of the setting.

PCM: Convert DTS to PCM.

MPEG (Default: PCM) QUICK

· Set to BITSTREAM when the unit is connected to an MPEG

BITSTREAM: Output MPEG sound.

• For HDMI connection, if the connected equipment is not compatible with the MPEG sound, the signals are output as PCM

regardless of the setting.



union 🗀 🗊 🏑 Other

other 🔝 🕝

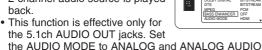
one 🗀 🗊 🖍 One

Other

PCM: Convert MPEG to sound PCM.

BASS ENHANCER (Default: OFF)

· Set to ON for sound output on the bass-woofer channel when 2-channel audio source is played



to MULTI CHANNEL to set this function. When SUB WOOFER is set to NONE in the Speaker Configuration, BASS ENHANCER will be set to OFF automatically.

AUDIO MODE (Default: HDMI)

· Select the sound is output from whether HDMI OUT jack or 5.1ch AUDIO OUT jacks.

HDMI: Sound is output via HDMI connection. Output from 5.1ch

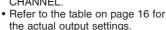
AUDIO OUT connection may be restricted.

ANALOG: Sound is output via 5.1ch AUDIO OUT jacks. Output from HDMI connection is cut off.

Set to ANALOG when Super Audio CD is played back.

HDMI AUDIO (Default: 2 CHANNEL)

· Select the number of channels for HDMI audio output between 2 CHANNEL and MULTI CHANNEL.



 Connect appropriate external equipment for each setting and set AUDIO MODE to HDMI beforehand to perform this setting.

2 CHANNEL:

2 channel signals are output from HDMI OUT jack. Suitable for monitors or projectors compatible with HDMI 2CH.

MULTI CHANNEL:

Multi channel signals are output from HDMI OUT jack. Suitable for monitors or amplifiers compatible with HDMI multi channels.

 When MULTI CHANNEL is selected, the Speaker setting menu for HDMI AUDIO will appear (refer to page 32).

ANALOG AUDIO (Default: 2 CHANNEL)

 Set AUDIO MODE to ANALOG beforehand to perform this setting.

2 CHANNEL

Output 2ch sound from the 5.1ch AUDIO OUT jacks. MULTI CHANNEL:

> Output Multi channel sound from the 5.1ch AUDIO OUT jacks.



5 Press the **SETUP** button to exit and activate the new settings.

Speaker Setting for ANALOG AUDIO

When MULTI CHANNEL is selected for ANALOG AUDIO, some speaker settings will be required.

- Set AUDIO MODE to ANALOG beforehand to perform this
- Press the Cursor buttons (▲ or ▼) to select MULTI CHANNEL, then press the ENTER button.
- 2 Press the Cursor buttons

(▲ or ▼) to select the below items, then press the ENTER button.

• The CUSTOM mode will appear.

Speaker Configuration

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



offer 🗀 🖟 Other

Speaker Configuration DELAY TIME

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



FRONT(L/R), CENTER, SURROUND(L/R)

LARGE: Select this when the connected speaker is capable of playing back sounds of 100Hz or less.

SMALL: Select this when the connected speaker is not capable of playing back sounds of 100Hz or

NONE: Select this when it is not connected. (It cannot be set NONE on the FRONT speaker.)

SUB WOOFER

Select this when SUB WOOFER is connected. YFS:

NONE: Select this when it is not connected.

NOTES:

- NONE is not available for SUB WOOFER when SMALL is selected for FRONT (L/R).
- SMALL is not available for FRONT (L/R) when NONE is selected for SUB WOOFER.
- ON is not available for BASS ENHANCER when NONE is selected for SUB WOOFER.
- When playing back DVD-Audio, the sound may not come out as set due to restrictions in the disc or the player.

DELAY TIME

With 5.1-channel surround sound, ideally the distance between the listening position and all the speakers (exclude SUB WOOFER). The delay time setting can be used to make the sound from the different speakers reach the listening position at the same time.

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

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



DISTANCE (Default: METERS) METERS (when the ENTER

button is pressed):

The unit of distance is set to meters (m). FEET (when the ENTER button is pressed):

The unit of distance is set to feet (ft).

FRONT(L/R), CENTER, SURROUND(L/R)

(Default: 3.6m)

FRONT(L/R):

The distance can be set within the range of 0 to 18.0m.
CENTER, SURROUND:
These depend on the setting

value of FRONT(L/R).

NOTES:

- It is not possible to adjust this item if CENTER and SURROUND have been set to NONE in the Speaker Configuration setting.
- When DEFAULT is selected and the ENTER button is pressed, all the items are restored to their factory default settings.

CHANNEL LEVEL

When the channel level differs from each speaker, the adjustment can be made in the unit of dB (-12dB to 0dB).



TEST TONE:

Press the Cursor buttons
 (▲ or ▼) to select TEST TONE,
 then press the ENTER button.
 The test tone will output from
 each speaker in turn.



Other

CHANNEL LEVEL:

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

level for each speaker, then press the **ENTER** button.

NOTES:

- While the test tone is being output, the channel balance adjustment cannot be made.
- When TEST TONE is selected, no test tone will be output from SUBWOOFER.
- It is not possible to adjust this item for the speaker that has been set to NONE in Speaker Configuration setting.
- 3 Press the **SETUP** button to exit.





Speaker Setting for HDMI AUDIO

When HDMI AUDIO is selected for MULTI CHANNEL, the bass management setting menu will appear. Set the Speaker Configuration, DELAY TIME and CHANNEL LEVEL for each speakers (front, centre, surround and sub woofer).



Speaker Configuration

Set the size of each speaker between LARGE and SMALL.

- The presence of the speakers is detected automatically. Set the detected speakers' size.
- When a speaker is not detected, its size is set as NONE.
- Once a speaker is detected, you cannot set it to NONE.
- The default setting is LARGE.
- During HDMI audio output, the sound output via analogue channels may be restricted.





DELAY TIME

Same as DELAY TIME setting for "Speaker Setting for ANALOG AUDIO" on page 31.

CHANNEL LEVEL

Same as CHANNEL LEVEL setting for "Speaker Setting for ANALOG AUDIO" on this page.

Ratings Control

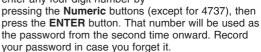
Ratings Control allows you to set a limit, which prevents your children from viewing inappropriate materials on DVDs. A four-digit password that you establish will give you the control.

RATING LEVEL

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

- Press the SETUP button in stop mode.
- Press the Cursor buttons (◄ or ►) to select CUSTOM, then press the ENTER button.
- Press the Cursor buttons
 (◀ or ►) to select RATINGS, then press the ENTER button.
- 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



Fress the Cursor buttons (▲ or ▼) to select RATING LEVEL, then press the ENTER button



□ (1) of or



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.

NOTES

- This function may not work on some DVDs. Be sure if the RATINGS operates in the way you have set.
- The resume information will be cleared if you change the parental level when the resume information is on.

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.
- 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.
- Repeat steps 4 to 7 to re-establish the parental lock.

CONTROL LEVELS

• ALL

Parental lock is cancelled.

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DVD software of any grade (adult/general/children) can be played back.

• Levels 7 to 2

Only DVD software intended for general use and children can be played back.

Level 1

Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

Others Setting

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

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

ANGLE ICON (Default: ON)

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





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AUTO POWER OFF (Default: ON)

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



PANEL DISPLAY (Default: BRIGHT)

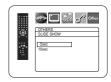
- Press the Cursor buttons

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



SLIDE SHOW (Default: 5sec)

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



DivX(R) VOD

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



PLAYER MODE (Default: AUDIO)

- Press the ENTER button repeatedly to select AUDIO or VIDEO.
- AUDIO: Select to play back general contents of DVD-Audio
- DVD-Audio.

 VIDEO: Select to play back



DVD-Video contents included in DVD-Audio.

NOTES:

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

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

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

- Press the **SETUP** button in stop mode.
- 2 Press the Cursor buttons (◀ or ►) to select INITIALIZE, then press the ENTER button.
- Press the Cursor buttons (A or V) to select YES, then press the ENTER button.
- 4 Press the **SETUP** button to exit.

NOTE:

• If you do not wish to initialize, select NO at step 3.

Language Code List

<u>Language</u>	<u>Code</u>	<u>Language</u>	Code	<u>Language</u>	<u>Code</u>	<u>Language</u>	Code
A-B		French [FRE]	5264	Macedonian	5957	Siswat	6565
Abkhazian	4748	Frisian	5271	Malagasy	5953	Slovak [SLO]	6557
Afar	4747	Galician	5358	Malay	5965	Slovenian	6558
Afrikaans	4752	Georgian	5747	Malayalam	5958	Somali	6561
Albanian	6563	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165
Amharic	4759	Greek [GRE]	5158	Maori	5955	Sundanese	6567
Arabic	4764	Greenlandic	5758	Marathi	5964	Swahili	6569
Armenian	5471	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568
Assamese	4765	Gujarati	5367	Mongolian	5960	Ť	
Aymara	4771	Hausa	5447	Nauru	6047	Tagalog	6658
Azerbaijani	4772	Hebrew	5569	Nepali	6051	Tajik	6653
Bashkir	4847	Hindi	5455	Norwegian [NOR]	6061	Tamil	6647
Basque	5167	Hungarian [HUN]	5467	O-R		Tatar	6666
Bengali;Bangla	4860	ı-K		Occitan	6149	Telugu	6651
Bhutani	5072	Icelandic [ICE]	5565	Oriya	6164	Thai	6654
Bihari	4854	Indonesian	5560	Oromo(Afan)	6159	Tibetan	4861
Bislama	4855	Interlingua	5547	Panjabi [′]	6247	Tigrinya	6655
Breton	4864	Interlingue	5551	Pashto;Pushto	6265	Tonga	6661
Bulgarian [BUL]	4853	Inupiak	5557	Persian	5247	Tsonga	6665
Burmese	5971	Irish [IRI]	5347	Polish [POL]	6258	Turkish [TUR]	6664
Byelorussian	4851	Italian [ITA]	5566	Portuguese [POR]	6266	Turkmen	6657
C-E		Japanese [JPN]	5647	Quechua	6367	Twi	6669
Cambodian	5759	Javanese	5669	Rhaeto-Romance	6459	U-Z	
Catalan	4947	Kannada	5760	Romanian [RUM]	6461	Ukrainian	6757
Chinese [CHI]	7254	Kashmiri	5765	Russian [RUS]	6467	Urdu	6764
Corsican	4961	Kazakh	5757	S		Uzbek	6772
Croatian	5464	Kinyarwanda	6469	Samoan	6559	Vietnamese	6855
Czech [CZE]	4965	Kirghiz	5771	Sangho	6553	Volapuk	6861
Danish [DAN]	5047	Kirundi	6460	Sanskrit	6547	Welsh	4971
Dutch [DUT]	6058	Korean [KOR]	5761	Scots Gaelic	5350	Wolof	6961
English [ENG]	5160	Kurdish	5767	Serbian	6564	Xhosa	7054
Esperanto	5161	L-N	0.0.	Serbo-Croatian	6554	Yiddish	5655
Estonian	5166	Laothian	5861	Sesotho	6566	Yoruba	7161
F-H	0.00	Latin	5847	Setswana	6660	Zulu	7267
Faroese	5261	Latvian:Lettish	5868	Shona	6560	2010	, 201
Fiji	5256	Lingala	5860	Sindhi	6550		
Finnish [FIN]	5255	Lithuanian	5866	Singhalese	6555		
i ii i	3233	Littidatilati	5000	On Ignalese	0000		

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

MAINTENANCE

Cleaning the Cabinet

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

Cleaning Discs

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

Cleaning the disc lens

• If the player still does not perform properly when it is operated while referring to the relevant sections and to "TROUBLESHOOTING GUIDE" in these Operating Instructions, the laser optical pickup unit may be dirty. Consult your dealer or an Authorised Service Centre for inspection and cleaning of the laser optical pickup unit.

Disc Handling

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









































TROUBLESHOOTING GUIDE

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

Problem	Solution	Page		
No power	-Check if the AC power cord is properly connectedUnplug the AC cord once, and wait for 5-10 seconds and then plug it in again.			
No sound or picture	-Check if the TV is turned onCheck the video and HDMI connectionCheck the AUDIO/VIDEO cable connectionsCheck if the PURE DIRECT is set to ON. If it is the case, set it to OFFCheck if the VIDEO OUT mode is set correctly.	15, 16 13-15 17		
Distorted picture	-Sometimes a small amount of picture distortion may appear. This is not a malfunctionConnect the DVD player directly to the TVCheck if the VIDEO OUT mode is set correctlyCheck the TV TYPE. (MULTI, NTSC or PAL)	- 15 12, 30 17, 18, 29		
Completely distorted picture or black/ white picture with DVD	-Connect the DVD player directly to the TVMake sure the disc is compatible with the DVD player.	15 6		
No sound or distorted sound	-Adjust the volumeCheck that the speakers are connected correctlyThe HDMI sound is not output during PURE DIRECT or when AUDIO MODE is set to ANALOG.	_ 13-15 17, 31		
No audio at digital output	-Check the digital connectionsCheck the audio settingsDigital signals cannot be output with Super Audio CDs. Use analogue connectionsArea/layer of Super audio CD being played (MULTI/STEREO/CD) does not match amplifier connections.	13, 16 30-32 13-15		
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.) -Connect the DVD player to the display equipment using the Audio/ Video cables (supplied), and check the HDMI settingsCheck whether the output format of this player (HDMI FORMAT) matches the supported input format of other connected equipmentCheck if the PURE DIRECT is set to ON. If it is the case, set it to OFF.	16, 17 16 13-16, 30-32 16 17		
Picture freezes momentarily during playback	-Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge. -Clean the disc.	34 34		
Disc can't be played back	-Clean the discEnsure the disc label is facing upCheck if the disc is defective by trying another discCancel the ratings control or change the control levelInsert a correct disc that can be played back on this player.	34 17 - 32, 33 6		
No return to start-up screen when disc is removed	-Reset the player by turning it off, then on again.	_		
The DVD player does not respond to the remote control	 -Aim the remote control directly at the sensor on the front of the player. -Reduce the distance to the player. -Replace the batteries in the remote control. -Re-insert the batteries with their polarities (+/- signs) as indicated. 	8 - 8 8		

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TROUBLESHOOTING GUIDE

Problem	Solution	Page
Buttons do not work or the player stops responding	-To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.	-
The DVD player does not respond to some operating commands during playback	-Operations may not be permitted by the disc. Refer to the instructions of the disc.	6
The DVD player cannot read CDs/DVDs	-Use a commonly available CD/DVD cleaner to clean the lens before sending the DVD player for repair.	34
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.	28
Playback does not start when the title is selected	-Check the "RATINGS" setting.	32-33
The password for rating level has been forgotten	-Enter the default password "4737", then your forgotten password will be cleared.	32-33

NOTES:

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in these Operating Instructions for details on correct operations.
- Playback from a desired track and random playback are not available during programme playback.
- Some functions are prohibited on some discs.
- When playing back Video CDs with PBC function, some operations (e.g., select and track repeat) cannot be performed. Cancel PBC function temporarily to perform those operations. Refer to page 17.

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SPECIFICATIONS

SIGNAL SYSTEM

NTSC/PAL colour

APPLICABLE DISCS

(1) DVD-Video/DVD-Audio Discs

1-layer 12 cm single-sided discs, 2-layer 12 cm single-sided discs, 2-layer 12 cm double-sided discs (1 layer per side)

1-layer 8 cm single-sided discs, 2-layer 8 cm single-sided discs, 2-layer 8 cm double-sided discs (1 layer per side)

(2) Super Audio CD

(3) DVD-R/DVD-RW

(4) Compact discs (Audio CD, Video CD) 12 cm discs, 8 cm discs

(5) CD-R/CD-RW

S-VIDEO OUTPUT

Y output level: 1Vp-p (75Ω/ohms)

C output level: 0.3Vp-p

Output connectors: S connectors, 1 set

VIDEO OUTPUT

Output level: 1Vp-p (75 Ω /ohms) Output connector: Pin jacks, 1 set

COMPONENT OUTPUT

Y output level: 1Vp-p (75 Ω /ohms) PB/CB output level: 0.7Vp-p (75 Ω /ohms) PR/CR output level: 0.7Vp-p (75 Ω /ohms) Output connector: Pin jacks, 1 set

HDMI OUTPUT

HDMI jack, 1 set

AUDIO/VIDEO

21-pin scart jack, 1 set

AUDIO OUTPUT

Output level: 2Vrms

2 channel (L, R) output connector: Pin jack, 1 set Multi channel (FL, FR, C, SL, SR, SW) 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) : 4Hz to 88kHz (192kHz sampling)

2 CDs : 4Hz to 20kHz

3 Super Audio CD : 4Hz to 100kHz

(2) S/N ratio : 115dB

(3) Total harmonic distortion: 1kHz CD: 0.004%

(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 230V. 50Hz

POWER CONSUMPTION

15 W (Standby: 0.4 W)

MAXIMUM EXTERNAL DIMENSIONS

435 (width) x 75 (height) x 310 (depth) mm (including protruding parts)

MASS

2.6 Kg (5.72 lbs)

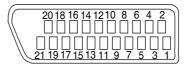
REMOTE CONTROL UNIT

RC-1017

Infrared pulse type

Supply: DC 3V, 2 R6P/AA batteries

PIN CONNECTION (AV1)



Contacts, signal levels and impedances

Contact 1

Audio Output (Right): 2.0Vrms

Contact 3

Audio Output (Left): 2.0Vrms

Contact 4

Audio, Ground Contact 5

RGB, Ground (Blue)

Contact 7

RGB Output (Blue): 0.7Vp-p/75Ω

Contact 8

Function Select Switching Control

L: 0.0~2.0V DC Power Off M: 4.5~7.0V DC Wide-Screen Mode (16:9)

H: 9.5~12.0V DC Normal Mode (4:3)

Contact 9

RGB, Ground (Green)

Contact 11

RGB Output (Green): $0.7\text{Vp-p/}75\Omega$

Contact 13

RGB, Ground (Red)

Contact 14

RGB Switching Control, Ground Contact 15

00711401 70

RGB Output (Red): $0.7\text{Vp-p/}75\Omega$

Contact 16

RGB Switching Control

H: 1~3V DC RGB Mode

Contact 17

Video Output Signal, Ground

Contact 18

Video Input Signal, Ground

Contact 19

Video Output (CVBS): 1.0Vp-p/75Ω

Contact 21

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Common Ground (shielding)