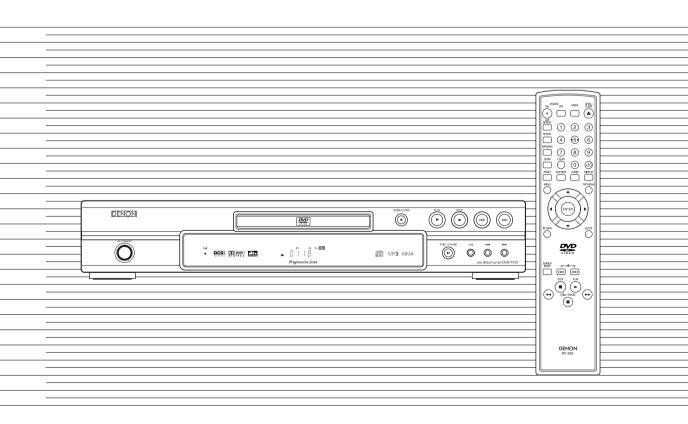
DENON

DVD VIDEO PLAYER

DVD-1910

OPERATING INSTRUCTIONS
MODE D'EMPLOI
BEDIENUNGSANLEITUNG
GEBRUIKSAANWIJZING
INSTRUCCIONES DE FUNCIONAMIENTO
ISTRUZIONI PER L'USO
BRUKSANVISNING



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



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION:

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



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



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

PRECAUTIONS

Laser Safety

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

CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR

PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION: VISIBLE AND INVISIBLE LASER RADIATION

WHEN OPEN AND INTERLOCK DEFEATED. DO

NOT STARE INTO BEAM.

LOCATION: *PRINTED ON THE BACK

"CLASS 1 LASER PRODUCT"

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

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

< Important

Use only discs marked DVD or disc with this DVD player.

Power Supply

The main power supply is engaged when the main plug is plugged in a 220-240V, 50Hz AC outlet. To operate the unit, press the ON/STANDBY button to turn on the unit.

√ Warning

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

WARNING:

LIVE PARTS INSIDE.
DO NOT REMOVE ANY SCREWS.

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.

Declaration of Conformity

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

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

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.
- 5) Do not push objects of any kind into this through the cabinet slot as they could touch current carrying parts or short circuit parts resulting in a fire or electric shock.
- Never spill liquid of any kind on this unit.
 If liquid is spilled into the unit, consult qualified service engineer.
- 7) Use this unit in a horizontal (flat) position only.
- 8) This equipment is in Stand-by mode when it turns off whilst the power cord is connected.
- 9) Keep the set free from moisture, water and dust.
- 10) Handle the power cord carefully. Hold the plug when unplugging the code.
- 11) All the safety cautions and operating instructions should be read before the DVD player is operated.
- 12) Use caution not to pinch your finger in the disc slot.
- 13) Do not put heavy objects on the AC power cord.
- 14) Keep the AC power cord away from heat appliances.
- 15) Be sure to remove a disc and unplug the AC power cord from the outlet before carrying the DVD player.
- 16) Do not put any pressure to the DVD player when carrying.
- 17) Do not use the DVD player outdoors.

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INTRODUCTION

A NOTE ABOUT RECYCLING:

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

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

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

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

About Copyright

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

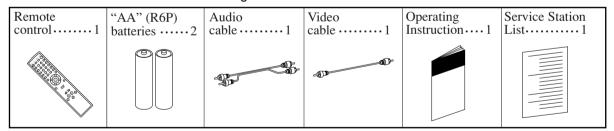
Apparatus Claims of U. S. Patent Nos, 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.

√ Notice for the progressive scan outputs

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

Supplied Accessories

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



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Symbols Used in this Manual

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

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

CD: Description refers to playback of Audio CDs.

MP3: Description refers to playback of discs formatted with MP3.

VCD : Description refers to playback of Video CDs.

JPEG: Description refers to viewing of JPEG discs.

WMA: Description refers to playback of discs formatted with WMA.

Playable Discs

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

Usable discs	Mark (logo)	Recorded signals	Disc Size
DVD-Video (NOTE 1)	VIDEO DVD	Digital video	12 cm
DVD-R DVD-RW (NOTE 2, 3)	R DVD	(MPEG2)	8 cm
Video			12 cm
CD	DIGITAL VIDEO VIDEO CD	Pictures	8 cm (Singles)
CD CD-R	COMPACT DIGITAL AUDIO	Digital audio MP3 WMA (NOTE 5)	12 cm
CD-RW (NOTE 4)	COMPACT COMPACT DIGITAL AUDIO RECOTCIBILE REWITEDIE	Digital picture (JPEG)	8 cm
Picture CD	Kodak Picture CD COMPATIBLE	JPEG	12 cm

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

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

NOTE 3: Some DVD-R/DVD-RW discs may not be played in this player.

NOTE 4: Some of CD-R/CD-RW discs may be incompatible because of "scratch and stain of disc", "Recording condition", and "Characteristic of Recorder".

NOTE 5: Windows Media and the Windows logo are



trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

This player conforms to the PAL color system. Also you can play discs recorded with the NTSC system via a PAL system TV set.

Some discs include region codes as shown below.





- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD players with the same region code.
- On the following discs, only the sound can be heard (picture cannot be viewed). CDV CD-G
- NEVER play back the following discs. Otherwise, malfunction may result! DVD-Audio

DVD-RAM CD-I

Photo CD

DVD with region codes other than 2 or ALL DVD-ROM for personal computers

CD-ROM for personal computers

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

Super Audio CD

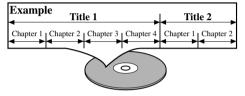
NOTE:

- Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density Super Audio CD layer cannot be delivered.
- Any other discs without compatibility indications.

Disc Types

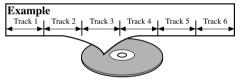
[DVD-Video]

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



[Audio CD, Video CD]

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



ABOUT THE PBC FUNCTION OF VIDEO CD

This unit conforms to ver.1.1 and ver.2.0 of Video CD standard, with PBC function.

Ver.1.1 (without PBC function):

You can enjoy playback picture as well as music CD. Ver.2.0 (with PBC function): While using a Video CD with PBC function, "PBC" appears on the screen and the display.

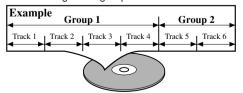
What is PBC? "PBC" stands for the Playback Control. You can play interactive software using menu screens. Refer to instructions in the Video CD.

NOTE:

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

[MP3, JPEG, WMA]

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



CAUTION:

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

Progressive Scan system

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

Dolby Digital Sound

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

DTS (Digital Theater System)

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

DVI (Digital Visual Interface)

You can enjoy clearer video output when connected to a display with an HDCP-compatible DVI-D 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 audio CD, MP3, JPEG, and **WMA**

This player can shuffle the order of tracks to play them in random order.

 Programme playback for audio CD, MP3, JPEG, and WMA

You can programme the order of tracks to play them in a desired order.

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

Auto power off

The power turns off automatically if there is no activity at the player or the remote control for more than 35 minutes. (Refer to page 23.)

Subtitles in a desired language

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

Selecting a camera angle

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

 Choices for audio language and sound mode You can select the desired audio language and sound mode if different languages and modes are available

Ratings Control (Parental lock)

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

Automatic detection of discs

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

Playing an MP3 disc

You can enjoy MP3 files which are recorded on CD-

Direct Search

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

On-screen display

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

The brightness of the display can be varied.

Screen Saver

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

Picture Control

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

Search

Chapter search: Search for the chapter designated by

user is possible.

Title search: Search for the title designated by user

is possible.

Search for the track designated by Track search:

user is possible.

Search for the time designated by user Time search:

is possible.

Repeat

Chapter: Repeated playback of the chapter of the disc

being played is possible.

Title: Repeated playback of the title of the disc being played is possible.

Repeated playback of the track of the disc Track:

being played is possible.

All: Repeated playback of the entire disc is

possible.

(exclude DVD-Video)

A-B: The part between A and B designated by user is possible.

Repeated playback of the folder of the Group:

MP3/JPEG/WMA disc being played is possible.

Zoom

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

Marker

The part designated by user can be called back.

Resume Play

You can resume playback from the point at which the play has been stopped even if the power is turned off.

Component Video Out Jacks

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

Bit rate indication

DRC (Dynamic Range Control)

You can control the range of sound volume.

MPEG sound

This player can handle a disc that supports MPEG audio and the DVD player is connected to an MPEG

Displaying a JPEG picture

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

Reproducing WMA data

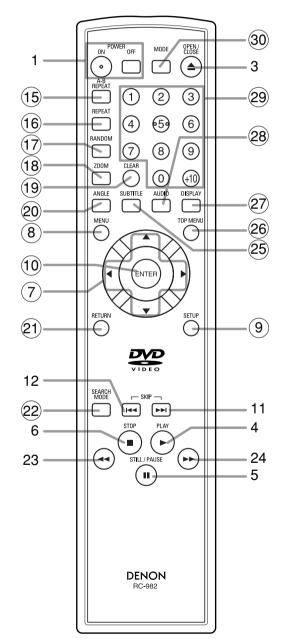
You can enjoy WMA files which are recorded on CD-R/RW.

"Kodak Picture CD COMPATIBLE" is trademark of Eastman Kodak Company.

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

FRONT PANEL 1 2 3 4 6 12 11 | DENON | DENON

REMOTE CONTROL



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

- 1. ON/STANDBY (POWER ON/OFF) Buttons [page 15]
- 2. Disc loading tray
- 3. OPEN/CLOSE Button [page 15]
- 4. PLAY Button [page 15]
- 5. STILL/PAUSE Button [page 15]
- 6. STOP Button [page 15]
- Cursor Buttons [page 15]
 Use when making settings while watching the display on a TV screen.
- 8. MENU Button [page 15]
- 9. SETUP Button [page 23]
- 10. ENTER Button [page 15]
- 11. ▶►I(SKIP UP) Button [page 17]

Plays back from the beginning of the next chapter or track.

12. I◄◄(SKIP DOWN) Button [page 17]

Plays back from the beginning of the current chapter or track.

13. DVI Button [page 15]

Press set the DVI connector's video signal output mode.

- 14. Remote Sensor Window
- 15. A-B REPEAT Button [page 18]
- 16. REPEAT Button [page 17]
- 17. RANDOM Button [pages 18, 20]
- 18. ZOOM Button [page 16]
- 19. CLEAR Button [page 17]
- 20. ANGLE Button [page 21]

Press to change the camera angle and see the same sequence being played back from a different angle.

- 21. RETURN Button [page 15]
- 22. SEARCH MODE Button [page 17]
- 23. **◄**◄(Fast Reverse Search) Button [page 16]
- 24. ▶► (Fast Forward Search) Button [page 16]
- 25. SUBTITLE Button [page 21]

Press to select a desired subtitle language.

- 26. TOP MENU Button [page 15]
- 27. DISPLAY Button [page 20]
- 28. AUDIO Button [page 21]

Press to select a desired audio language or sound mode.

- 29. Numeric Buttons [page 15]
- 30. MODE Button [page 18, 20]
- 31. DVI indicator [page 15]

Lights when there is video signal output from the DVI-D OUT jack.

Tour of the remote control

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

	DVD	VCD	CD, MP3, JPEG, WMA
POWER ON POWER OFF	Press this to switch the power between on and standby.	Press this to switch the power between on and standby.	Press this to switch the power between on and standby.
A-B REPEAT Button	Marks a segment between A and B for repeated playback.	Marks a segment between A and B for repeated playback.	Marks a segment between A and B for repeated playback (CD).
REPEAT Button	Allows you to repeat playback of a Title or Chapter.	Allows you to repeat playback of a Track or Disc.	Allows you to repeat playback of a Track or Disc (CD). Allows you to repeat playback of a Track, Group or Disc (MP3, JPEG, WMA).
RANDOM Button	_		Allows you to play Track in random order.
MODE Button	 To set Picture Control. To activate the 3D sound (Virtual surround system). To set Dialog Speed. 	To activate the 3D sound (Virtual surround system).	 Allows you to programme a specific order or playback in random order. To activate the 3D sound (Virtual surround system). (CD, MP3, WMA)
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).
ANGLE Button	Accesses various camera angles on the disc.		
SUBTITLE Button	Accesses various subtitles on the disc.	_	_
AUDIO Button	Accesses various audio functions on the disc.	To select STEREO, L-CH or R-CH.	• To select STEREO, L-CH or R-CH (CD).
DISPLAY Button	Displays the current disc mode.	Displays the current disc mode.	Displays the current disc mode.
SEARCH MODE Button	To search for a chapter, title, time or marker. To rapidly return to a location on 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 a time or maker (CD). To rapidly return to a location on the disc.
OPEN/CLOSE Button	To open or close the disc tray.	To open or close the disc tray.	To open or close the disc tray.
Numeric Buttons	To select a chapter or title directly.	To select a track directly.	To select a track directly.
CLEAR Button	To clear the markers. 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 (CD). To remove status number in programme input. To clear the numbers entered incorrectly. To cancel the A point for A-B Repeat (CD).

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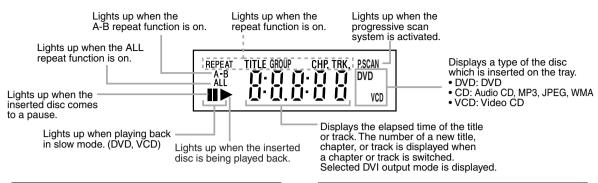
FUNCTIONAL OVERVIEW

Tour of the remote control

	DVD	VCD	CD, MP3, JPEG, WMA
MENU Button	To call up the Menu on a disc.	_	• To call up the FILE LIST (MP3, JPEG, WMA).
TOP MENU Button	To call up the Top Menu on a disc.	_	To return to the first item in the hightest hierarcly of the FILE LIST (MP3, JPEG, WMA).
ENTER, Cursor Buttons	Moves the cursor and determines its position.	Moves the cursor and determines its position.	Moves the cursor and determines its position.
RETURN Button	To return to the previous operation in the DVD setup menu.	To return to the previous operation in the DVD setup menu.	To return to the previous operation in the DVD setup menu.
SETUP Button	To call up the DVD player's Setup menu.	To call up the DVD player's Setup menu.	To call up the DVD player's Setup menu.
SKIP Buttons	To skip Chapters.	• To skip Tracks.	• To skip Tracks.
SEARCH Buttons	Allows you to search forward/backward through a disc. To begin fast forward/reverse search or slow forward/slow reverse.	 Allows you to search forward/backward through a disc. To begin fast forward/reverse search or slow forward/slow reverse. 	Allows you to search forward/backward through a disc (CD, MP3, WMA). To begin fast forward/reverse search (CD, MP3, WMA).
STOP Button	To stop playback.	To stop playback.	To stop playback.
PLAY Button	To begin disc play.	To begin disc play.	To begin disc play.
STILL/PAUSE Button STILL/PAUSE II	To pause disc play. Advances playback one frame at a time.	To pause disc play. Advances playback one frame at a time.	To pause disc play.

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√ Front panel display



Displays During Operation

Power on
No disc inserted or cannot read
Tray open
Tray closed
Loading the Disc
Lights up when the playback control is activated (VCD)
Power off
DVI output mode (480p/576p) is selected • "480p" followed by "576p" appears.
DVI output mode (720p) is selected
DVI output mode (1080i) is selected
DVI output mode (OFF) is selected

Loading the Batteries

1. Open the battery compartment cover.



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



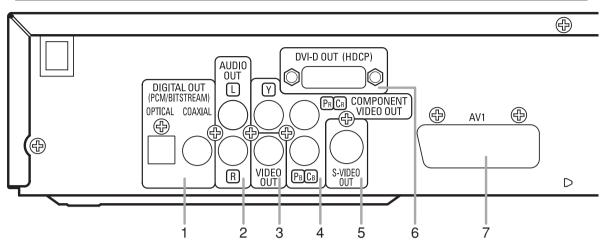
3. Close the cover.



Cautions On Batteries

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

Description - rear panel



1. DIGITAL OUT Jacks

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

2. AUDIO OUT Jacks

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

3. VIDEO OUT Jack

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

4. COMPONENT VIDEO OUT Jacks

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

5. S-VIDEO OUT Jack

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

6. DVI-D OUT (HDCP) Jack

Use a DVI-D connection cord (commercially available) to connect to a display with an HDCP-compatible DVI-D port.

7. AV1 Jack

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

NOTES:

- 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.
- When there is video output from the DVI-D OUT jack, no signal is output from the COMPONENT VIDEO OUT jacks.

Selecting Progressive Scan (625p/576p or Interlaced 625i/576i) Playback

• If your TV is compatible with progressive scanning (625p/576p), connect the TV to the Component Video jacks of the DVD player and set "VIDEO OUT" to "COMPONENT PROGRESSIVE" in the display setting. Next, set your TV to the progressive scan mode.

Refer to page 23 for instructions on changing the display setting.

- If your TV is not compatible with progressive scan, set "VIDEO OUT" to "COMPONENT INTERLACE".
- Use a commercially available adaptor if the video input jacks of your TV or monitor is the BNC type.

What is Progressive Scanning?

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

The DCDi (Directional Correlational De-interlacing) 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 Faroudia, 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 Out" are trademarks of Digital Theater Systems, Inc.

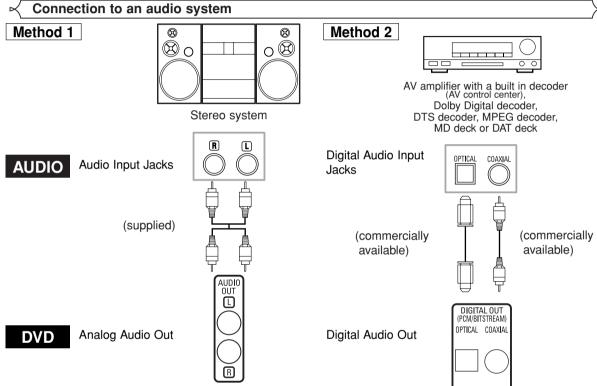
CONNECTIONS

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

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

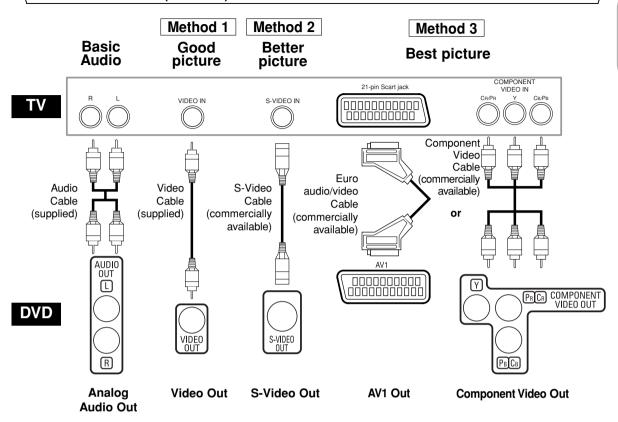
NOTES (for Method 2 only):

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

Optical cable

- Optical cable may be damaged when bent at sharp angles. Ensure cables are coiled in loops with a diameter of 15 cm or more when storing them.
- Use a cable which is 3m or shorter.
- Insert cable plugs firmly into the connectors when making connections.
- · If a plug has minor scratches or is dirty, clean it with a soft cloth before inserting it into a connector.

⟨ Connection to a TV (for video)



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

NOTES:

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

The video signals are divided into colour (C) and brightness (Y) signals, achieving a clearer picture.

If the TV is equipped with a S-Video input connector, we recommend connecting it to the this product's S-Video output connector using a commercially available S-Video connection cord.

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

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

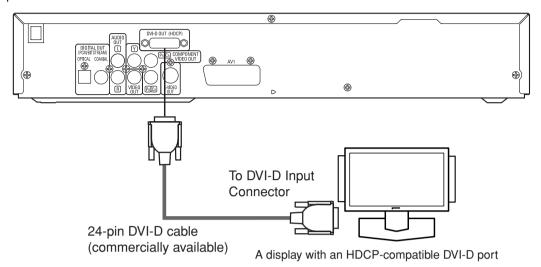
If your TV's 75 ohm coaxial antenna terminal is already occupied by an antenna or cable box connection, remove that cable from your TV's antenna terminal and reconnect it to the coaxial antenna input terminal of the RF Modulator (usually marked "ANT IN"), then connect the RF modulator to your TV's antenna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

NOTE:

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

Connection to a TV with an HDCP-compatible DVI-D port

Digital video signals can be delivered by connecting a DVI*-D cable from a display with an HDCP-compatible DVI-D port.



- When using an HDCP-incompatible display, the image will not be viewed properly.
- Make the audio connections as well because no audio signal is available from the DVI-D jack.
- The 24-pin and 29-pin DVI-D cables are commercially available. Only the 24-pin DVI-D cable can be used with this player.

Copyright protection system

To play the digital video images of a DVD via a DVI-D connection, it is necessary that both the player and the display (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 operating instructions for your display (or AV amplifier) for more information.

*DVI: Digital Visual Interface

Basic Playback

JPEG WMA DVD-V VCD CD MP3

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/OFF button.
 - "P-ON" will appear briefly on the display panel.
- 2 Press the OPEN/CLOSE button to open disc loading tray.
- 3 Place the disc in the tray, with the label facing up
- 4 Press the PLAY button.
 - The tray will close automatically, then playback will start from the first chapter or track of the disc. If the playback does not start automatically, press the **PLAY** button.

 • When you playback the DVD with a title menu, it may
 - appear on the screen. In this case, refer to "Title menu".

5 Press the STOP button to stop playback. NOTES:

- A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc.
- With DVDs that use some titles for playback 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 playback DVDs with disc menu or Video CDs with PBC. Refer to the manual accompanying the disc for details.

CANCELLING AND CALLING BACK THE PBC FUNCTION

VCD

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

General Features

DVD-V

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

NOTE:

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

DVI Setup

I Press the **DVI** button on the front panel to select the DVI output mode.

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

DVI indicator on the front panel lights when DVI output mode is selected.

→ 480P/576P — 720P -1080 OFF

OFF (Default): No video output from the DVI-D OUT connector.

480P/576P: Video output from the DVI-D OUT jack at 480p or 576p.

720P:Video output from the DVI-D OUT jack at 720p. 1080: Video output from the DVI-D OUT jack at 1080i. NOTES:

- When changing the DVI output mode, video and audio
- signals may distorted temporarily.

 Use a display with an HDCP-compatible DVI-D port.
- · When there is video output from the DVI-D OUT jack, no signal is output from the COMPONENT VIDEO OUT jacks.
- When DVI output mode is set to 480P/576P. "480P" followed by "576P" appears in the front panel display.

When 480P/576P is seledted as the DVI output mode.

Video signal is output at 480p when playing an NTSC disc. With PAL discs, video signal is output at 576p.

Still / Pause DVD-V VCD MP3 JPEG WMA CD

- During playback, press the STILL/PAUSE button.
 - · Playback will pause and sound will be muted.
- 2 To continue playback, press the PLAY button.

NOTE:

 Set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 23.)

Disc Menus

DVD-V

Ш

- Press the MENU button.
 - The DVD main menu will appear.
- 2 If the feature is not available, \times 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 (▼/ ▲/ ►/ ◄) to select an item, and the **ENTER** button to confirm selection.

Title Menu

DVD-V

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

VCD

- When playing 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.
- Press the **RETURN** button to go back to the title menu.

CALLING UP A MENU SCREEN DURING PLAYBACK

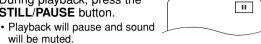
DVD-V

- Press the MENU button to call up the DVD main menu.
- Press the TOP MENU button to call up the title menu. NOTE:
 - Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

Step by Step Playback

DVD-V VCD

During playback, press the STILL/PAUSE button.



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

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

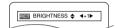
 Set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 23.)

Picture Control

DVD-V VCD

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

During playback, press the MODE button.



2 Press the Cursor button (▲ or ▼) to switch item.

3 Press the ENTER button or the Cursor button or ◀) to adjust desired item.

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

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

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

Resume

DVD-V VCD MP3 JPEG | WMA CD

During playback, press the STOP button.

Resume message will appear on the TV screen.



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

To cancel resume, press the STOP button twice.

NOTES:

 Some Video CDs with the PBC function resume playback from the beginning of the track.

 The resume information will be saved on even when the power is switched off.

• For MP3, JPEG or WMA, playback will resume from the

beginning of the current track.

Fast Forward / Reverse Search

DVD-V VCD CD MP3 **WMA**

■ During playback, press the >> or << button repeated-</p> ly to select the required forward or reverse speed.

· For DVDs, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1 (x2), 2(x8), 3 (x50), and 4 (x100)

• For Video CDs, the speed is 1(x2), 2(x8) or 3(x30).

■■ Button 442 **44**3 444 ▶ Button **▶**▶3 **▶** 4 **▶**■1 **▶** 2

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

Slow Forward / Slow Reverse

VCD DVD-V

During playback, press the STILL/PAUSE button.

2 Press the ►► or ◄◄ button.

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

3 Press the ▶▶ or ◄◄ button repeatedly to select the required speed.

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



▶► Button

I▶ 1

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

- · Set "STILL MODE" to "FIELD" on the Display menu if pictures in the slow playback mode are blurred. (Refer to page 23.)
- Only Slow Forward is available when playing Video CD.



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

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

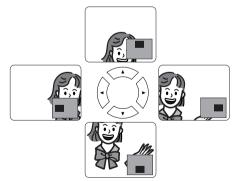
Playback will continue.

2 Press the **ZOOM** button repeatedly to select the required zoom factor: x2, x4 or OFF.

• Only x2 zoom is available on Video CDs and JPEG.



3 Use the **Cursor** buttons ($\nabla/\Delta/\triangleright/\blacktriangleleft$) to move the zoomed picture across the screen.



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

NOTES:

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

Title / Chapter Search

DVD-V

By using the SEARCH MODE button

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



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

By using the SKIP buttons I◀◀ ▶▶

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

√ Track Search

CD VCD MP3 JPEG WMA

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

By using the Numeric buttons

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

By using the SEARCH MODE button

Press the SEARCH MODE button.



- The track search display appears.
- Within 30 seconds, select a desired track number using the Numeric buttons. For single digits press "0" first if the total track of the disc is more than 10 tracks.
 - · Playback will start at the selected track.

By using the SKIP buttons

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

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

NOTE:

Time Search

DVD-V CD VCI

- Press the SEARCH MODE button until the Time Search screen appears on the TV screen.
- Within 30 seconds, enter a desired disc time with the **Numeric** buttons.



- · Playback will start at the specified time.
- For Time Search, "0" appears automatically when there is no need to enter a number. For example, "0:0_:__" appears in the Time Search screen if the total time of the disc is less than 10 minutes.
- 3 Press the CLEAR button to erase an incorrect input.

Repeat

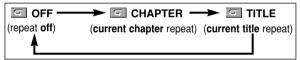
The REPEAT button is available only during playback.

REPEAT TITLE / CHAPTER

DVD-V

To activate the repeat function, press the $\ensuremath{\mathbf{REPEAT}}$ button during playback.

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



NOTES:

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

REPEAT TRACK / GROUP / ALL

CD VCD

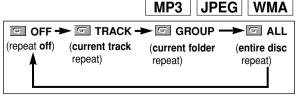
To activate the repeat function, press the $\ensuremath{\mathbf{REPEAT}}$ button during playback.

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



NOTES:

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



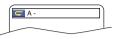
NOTE:

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

A-B REPEAT

DVD-V CD **VCD**

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



A- appears briefly on the TV screen.

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



■ A-B appears briefly on the

TV screen, and the repeat sequence begins.

3 To exit the sequence, press the A-B REPEAT button.



NOTES:

- · The A-B Repeat section can only be set within the current title (for DVDs), or current track (for Audio CDs, Video CDs).
- · A-B Repeat is not available with some scenes in DVD.
- To cancel the A point which was set, press the CLEAR
- · A-B Repeat playback does not function during title, chapter, track or all repeat playback.

Programme Playback (CD)

CD

You can determine the order in which tracks will play.

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

NOTES:

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

Random Playback (CD)

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

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



2 Press the PLAY button to start random playback.

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

MP3 / JPEG / WMA Playback

MP3 | JPEG | WMA

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

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

NOTES:

- Folders are known as Groups: files are known as Tracks.
- A symbol of "\overline{a}" is shown on the top of the group name.
- A symbol of "a" is shown on the top of JPEG files.
- A symbol of "D" is shown on the top of WMA files.
- Maximum of 255 folders can be recognized. • If the track extends beyond the scope of screen, a down
- arrow "▼" appears, indicating that the user can view another part on the previous page. The current page number and the number of total pages are shown on the left of the down arrow "▼".
- · Maximum of 512 files can be recognized.
- · Up to 8 hierarchies can be created.
- If no MP3, JPEG or WMA files are found in the group, the group is not displayed.
- The DVD player can reproduce data recorded as per ISO 9660 Level 1, Level 2 or Joliet on the disc.
- · It can also run a disc on which data is recorded in a multi-session.
- · For more details of recording systems, refer to the instruction manual for the CD-R / CD-RW drive or the writing software.

PLAYING A DISC

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

Applicable MP3 file		Remarks		
Sampling frequency	44.1kHz 48kHz	It is prohibited to record MP3 sound on a digital device when connection is made digitally.		
Туре	MPEG1 audio layer 3	 MP3 files recorded at fixed bit rate of 112 kbps or high- er are recommended. 		
Applicable JPE	G file	Remarks		
Size of Image L	Jpper limit: 3300x5100 dots .ower limit: 32x32 dots	 A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen. 		
Applicable WM	IA file	Remarks		
Sampling frequency	44.1kHz 48kHz	Those frequencies are applicable to WMA version 9.		
Bit rate	48-192kbps	 Ensure that the copyright function is set to off when preparing a WMA disc. 		
Туре	WMA version 9	 A prohibition "disable" symbol will appear if the user attempts to run a non-reproducible file such as copyright-protected. Recorded in 5.1 channel format cannot be played back. 		

Information on MP3, JPEG and WMA discs

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

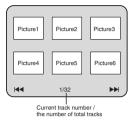
Kodak Picture CD

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

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

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

 If all menu items cannot be displayed in the screen scope, "▶▶I" appears at the right bottom of the screen, indicating that the user can view remaining items on the



next page. "I 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 (◄/►/▲/▼), select a desired track to be played, then press the PLAY or ENTER button.
 - If a Kodak Picture CD file is selected, an image will be played back from the selected track and go to the next one in turn.
- 3 Press the **STOP** button, to stop playback.

Notes on JPEG and Kodak Picture CD:

- A track is displayed for 5 seconds and then the next track is displayed.
- Every press on the ➤ button will turn the image clockwise by 90 degrees when an image is displayed. A press on the ◀ button will turn the image counterclockwise by 90 degrees.

Notes on WMA:

-19-

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

Slide Show Mode

JPEG

You can switch the slide show modes during playback.

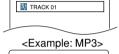
- 1 Press the **MODE** button during playback.
 - The slide show mode screen will appear.
 - The slide show mode cannot be switched when it is stopped, or from the FILE LIST screen or the Picture CD menu screen.
- 2 Press the ENTER button.
 - · The slide show mode will change. CUT IN/OUT: The entire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

On-Screen Information

MP3 **JPEG**

You can check information on the current file

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



- 2 Press the **DISPLAY** button to show the track number. the elapsed time, the repeat status, and the playback status at the top of the screen.
 - ς will be displayed when the repeat play has been selected.
 - indicates Track repeat C T
 - ← G indicates Group (folder) repeat
 - S A indicates Disc repeat
- Press the **DISPLAY** button to exit.
 - · During programme or random playback, each playback status will be displayed when you press the DISPLAY button. Then press the DISPLAY button to exit.

WMA

You can check information on the current file.

- Press the DISPLAY button.
 - The name of the file currently in play will be displayed.
- 2 Press the **DISPLAY** button.
 - · Title name based on tag information currently in play will be displayed.
- 3 Press the **DISPLAY** button.
 - Artist name based on tag information currently in play will be displayed.
- 4 Press the **DISPLAY** button to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.



TRACK 01

TITLE NAME

ARTIST NAME

- • will be displayed when the repeat play has been
 selected.
 - ςT - indicates Track repeat
- 5 Press the **DISPLAY** button to exit.
 - · During programme or random playback, each playback status will be displayed when you press the **DISPLAY** button. Then press the **DISPLAY** button to exit.

NOTE:

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

Programme Playback (MP3 / JPEG / WMA)

MP3

JPEG | WMA

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

- In stop mode, press the **MODE** button.
 - The PROGRAM screen will appear.
- 2 Press the Cursor buttons (▲ or ▼) to select a group. then press the **ENTER** button.
 - A track selection screen appears.
- 3 Press the Cursor buttons
 - (▲ or ▼) to select a track, then press the ENTER button to save it in a programme.
 - · Press the CLEAR button to erase the incorrect input.
 - · The programmed track is displayed in the right-hand screen.
 - If the entire programme cannot be displayed at once on the screen, "v" appears.
 - Pressing the

 button will show a list of folders that belong to the one-level upper hierarchy than the currently selected folder.
- 4 Press the **PLAY** button to start programmed play-
 - · Programmed play starts.

NOTES:

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

Random Playback (MP3 / JPEG / WMA)

MP3

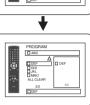
JPEG

WMA

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





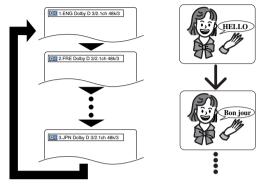


Audio Language

DVD-V

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

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



NOTES:

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

≺ Stereo Sound Mode

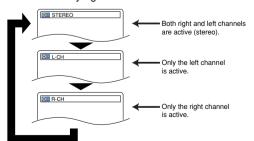
CD VCD

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

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

L-CH - only left channel is active

R-CH - only right channel is active



NOTES:

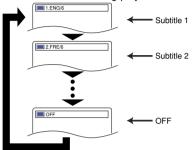
- If the Virtual Surround setting is ON, the sound mode will be fixed to STEREO.
- Stereo sound mode will not be changed when playing DTS -CD.

Subtitle Language

DVD-V

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



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

NOTES:

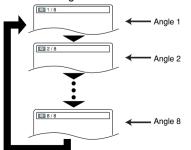
- Some discs allow subtitle language setting on the disc menu. (Operation varies between discs. Refer to the manual accompanying the disc.)
- Pressing the SUBTITLE button may not work on some DVDs with multiple subtitle languages (e.g. DVDs which allow subtitle language setting on the disc menu).
- If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

Camera Angle

DVD-V

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the mark ($\begin{cases} \begin{cases} \begin$

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



NOTE:

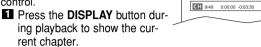
• If the "ANGLE ICON" setting is "OFF" in the Display menu, the mark () will not appear.

Changing the On-Screen Display

DVD-V

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

control.



- · The elapsed and remaining playing time of the current chapter will be displayed.
- 2 Press the **DISPLAY** button to show the current title.
 - The elapsed and remaining playing time of the current title will be displayed.
- 3 Press the **DISPLAY** button to show the BIT RATE and the current repeat setting.



- · If you are playing a dual layered disc, the layer number will also be displayed (L0: Layer 0 is playing. L1: Layer 1 is playing)
- 4 Press the **DISPLAY** button to remove the display.



- 1 Press the **DISPLAY** button during playback, the current track will be displayed on the TV screen.
 - The elapsed and remaining playing time of the current track will be displayed.
- 2 Press the **DISPLAY** button to show the total tracks.
 - The elapsed and remaining playing time of the disc will be displayed.
- 3 Press the **DISPLAY** button to remove the display.

Hints for the On-Screen Display

- ← C indicates Chapter repeat
- GT indicates Title or Track repeat
- ← A indicates Disc repeat
- A⊆B- indicates A-B repeat

Marker Setup Screen

DVD-V VCD CD

Use markers to memorise your favourite places on a disc.

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



- Press the Cursor buttons (◀ or ▶) to select 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 and ensure that "_:__:__: appears in the display.
- 3 When the disc reaches the point where you want to remember, press the ENTER button.
 - The Title or Track and elapsed playing time will appear in the TV screen.
- To return to the Marker later, press the SEARCH MODE button repeatedly during playback and the **Cursor** buttons (◀ or ▶) button to choose the desired marker, then press the ENTER button.
- 5 Press the SEARCH MODE or RETURN button to exit.

NOTES:

Opening the disc tray or turning off the power or select AC at step 2 and press the ENTER button will erase all Markers.

- To clear a marker, using the Cursor buttons (◄ or ►) button, position the cursor on to the marker number to be cleared and press the CLEAR button.
- · You can mark up to 10 points.

Virtual Surround

DVD-V VCD CD MP3 **WMA**

You can enjoy surround-sound effect with two speakers.

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



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

NOTES:

- · Select Virtual Surround OFF or adjust the volume down if the sound is distorted.
- · Virtual Surround will not be effective if the sound mode is set to something other than "STEREO". (for Audio CD or Video CD play only)
- This function cannot be used during Dialog Speed. (Refer to page 22.)

Dialog Speed

DVD-\

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

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



- · "OFF" appears on the TV screen.
- 2 Press the ENTER button or the Cursor button $(\blacktriangleleft \text{ or } \blacktriangleright)$ 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 play back.
- 3 To return to normal playback, press the **PLAY** button.

NOTES:

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

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

(A)

Language Setting

Language options are not available with some discs.

- Press the **SETUP** button in STOP mode.
- 2 Press the Cursor buttons (◄ or ►) to select CUS-TOM, then press the ENTER button.
 - · CUSTOM mode will appear.
- 3 Press the Cursor buttons (◀ or ▶) to select LANGUAGE, then press the ENTER button to con-
- 4 Press the Cursor buttons (▲ or to select the below items, then press the ENTER button.



· Sets the audio language.

SUBTITLE (Default : OFF) Sets the subtitle language.

DISC MENU (Default : ENGLISH)

· Sets the language for DVD Menu. OSD (Default : ENGLISH) QUICK

- · Sets the language for the On-Screen display.
- 5 Press the Cursor buttons (▲ or ▼) to select a setting, then press the ENTER button.
 - If OTHER is selected in the DIALOG, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to the language code list on page 25).
 - · Only the languages supported by the disc can be selected.

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

 Language Setting for DIALOG and SUBTITLE is not available with some discs. Then use the AUDIO and SUBTITLE buttons.

Details are on page 21.

Display Setting

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

- 1 Press the **SETUP** button in STOP mode.
- 2 Press the Cursor buttons (◄ or ►) to select CUS-TOM, then press the ENTER button.
 - CUŚTOM mode will appear.
- 3 Press the Cursor buttons (<</p> or ▶) to select DISPLAY, then press the ENTER button to confirm.
- 4 Press the Cursor buttons (▲ or ▼) to select the below items, then press the ENTER button.

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

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

STILL MODE (Default : AUTO)

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

ANGLE ICON (Default : ON)

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



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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 the DVD player to off automatically after 35 minutes of no

🛥 🔲 🛍 🕜 PECT 43 LETTER BOIL MODE AUTO E ICON ON POWER OFF ON DISPLAY RPIOLET

PANEL DISPLAY (Default : **BRIGHT**)

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

- VIDEO OUT (Default : SCART)

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

 Refer to page 11 for more details.
- 5 Press the SETUP button to exit.

NOTES:

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4:3 LETTER BOX

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





Audio Settina

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

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

DRC (Dynamic Range Control) (Default : ON)

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

LPCM SELECT (Default : OFF)

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

When playing disc with copyright protection

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

DOLBY DIGITAL (Default : ON) QUICK

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

to PCM.

DTS (Default : ON) QUICK

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

connected to DTS decoder. OFF: No DTS sound will be

output.

• DTS sound is output only from the digital audio outputs.

MPEG (Default: OFF) QUICK

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

decoder.

Convert the MPEG sound

to PCM.

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

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AUDIO

DRC LPCM SELECT

Ratings Control

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

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

RATING LEVEL

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

- Press the SETUP button in STOP mode.
- Press the Cursor buttons (◄ or ►) to select CUS-TOM, then press the **ENTER** button.

- 3 Press the Cursor buttons (◄ or ►) to select RAT-INGS, then press the **ENTER** button.
- 4 Press the Numeric buttons to enter your 4-digit password.
 - · When doing this for the first time, enter any 4-digit number by pressing the Numeric buttons (except for 4737), then press the **ENTER** button. That number will



RATING LEVEL

□ 1
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be used as the password from the second time onward. Record your password in case you forget it.

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

Press the Cursor buttons (▲ or ▼) to select RATING LEV-EL, then press the ENTER but-

ton. 6 Press the Cursor buttons (or ▼) to select the desired level, then press the ENTER but-

Press the SETUP button to exit. NOTE:

> This function may not work on some DVDs. Be sure if the RAT-

INGS operates in the way you have set.

To Change the Password:

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

IF YOU FORGET THE PASSWORD

- 1 Press 4, 7, 3, 7 at step 4.
- Password will be cleared and rating level will be set to ALL. 2 Repeat steps 4 to 7 to re-establish the parental lock.

CONTROL LEVELS

- · ALL
 - Parental lock is cancelled.
- Level 8

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

· Levels 7 to 2

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

Level 1

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

Returning all selections of SETUP (except for RATINGS and VIDEO OUT) to their default settings

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.

- Press the Cursor buttons (◄ or ►) to select INI-TIALIZE, then press the ENTER button.
- Press the Cursor buttons (

 or

 or

 to select YES, then press the **ENTER** button.
- 4 Press the SETUP button to exit.

NOTE:

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



DVD SETUP

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

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

MAINTENANCE

Cleaning the Cabinet

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

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the 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 "TROU-BLESHOOTING GUIDE" in those Operating Instruction, the laser optical pickup unit may be dirty. Consult your dealer or an Authorised Service Centre for inspection and cleaning of the laser optical pickup unit.

Disc Handling

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































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

TROUBLESHOOTING GUIDE

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

Problem	Solution	Page
No power	 Check if the AC power cord is properly connected. Unplug the outlet once, and wait for 5-10seconds and then plug it in again. 	_
No sound or picture	 Check if the TV is switched on. Check the video connection. Check the VIDEO/AUDIO cable connections to the TV. When there is video output from the DVI-D OUT connector, no signal is output from the COMPONENT VIDEO OUT jacks. When using these jacks, set DVI output mode to OFF. Check if the INTERLACE/PROGRESSIVE mode is set correctly according to your TV. 	13, 14 12, 13 14, 15
Distorted picture	 Sometimes a small amount of picture distortion may appear. This is not a malfunction. Connect the player directly to the TV. 	— 13
Completely distorted picture or black/white picture with DVD	Connect DVD player directly to the TV.Make sure the disc is compatible with the DVD player.	13 5
No sound or distorted sound	Adjust the volume.Check that the speakers are connected correctly.	
No audio at digital output	 Check the digital connections. Check if the audio format of the selected audio language matches your receiver capabilities. 	12 21, 23
No DTS sound output	 Use a DIGITAL AUDIO OUT jack when outputting the DTS sound. 	12, 24
Picture freezes momentarily during playback	 Check the disc for fingerprints/scratches and clean with a soft cloth during playback wiping from center to edge. Clean the disc. 	25 25
Disc cannot be played	- Clean the disc Ensure the disc label is facing up Check if the disc is defective by trying another disc Cancel the parental lock or change the control level Insert a correct disc that plays on this player.	25 — — 24 5
No return to start-up screen when disc is removed	Reset the player by switching the player 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. 	— 10 10
Buttons do not work or the DVD player stops responding	 To completely reset the player, unplug the AC cord from responding 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. 	
The DVD player cannot read CDs/DVDs	 Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD player for repair. 	
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.	_
Playback does not start when the title is selected	-Check the "RATINGS" setting.	24
The password for rating level has been forgotten	 Enter the default password "4737", then your forgotten password will be cleared. 	24

NOTES:

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operating Instruction for details on correct operations.
- · Playback from a desired track and random playback are not available during programme playback.
- · Some functions are prohibited on some discs.
- When playing Video CDs with PBC functions, some operations (e.g., search and repeat tracks) cannot be performed unless the function is cancelled temporarily. -26-

SPECIFICATIONS

SIGNAL SYSTEM

PAL color

APPLICABLE DISCS

(1) DVD-Video Discs

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

(2) DVD-R/DVD-RW

(3) Compact discs (CD-DA, Video CD) 12cm discs, 8cm discs

(4) CD-R/CD-RW

S-VIDEO OUTPUT

Y output level: 1Vp-p (75Ω/ohms)

C output level: 0.30Vp-p

Output connector: S connector, 1 set

VIDEO OUTPUT

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

DVI OUTPUT

24 pin DVI-D jack, 1 set

AUDIO/VIDEO

21-pin scart jack

AUDIO OUTPUT

Output level: 2Vrms

2 channel (L, R) output connectors: Pin jacks, 1 set

AUDIO OUTPUT PROPERTIES

(1) Frequency response

1 DVDs (linear PCM) : 4Hz to 22kHz (48 kHz sampling) : 4Hz to 44kHz (96 kHz sampling)

2 CDs : 4Hz to 20kHz (2) S/N ratio : 115dB

(3) Total harmonic distortion: 1kHz CD: 0.004%(4) Dynamic range : DVD: 100dB

CD: 98dB

DIGITAL AUDIO OUTPUT

Optical digital output: Optical connector, 1 set Coaxial digital output: Pin jack, 1 set

POWER SUPPLY

AC 220-240V, 50Hz

POWER CONSUMPTION

17 W (Standby: 1.7 W)

MAXIMUM EXTERNAL DIMENSIONS

435 (width) x 75 (height) x 220 (depth) mm (including protruding parts)

MASS

2.1 Kg

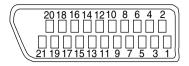
REMOTE CONTROL UNIT

RC-982

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/ $1k\Omega$

Contact 3

Audio Output (Left): 2.0Vrms/ $1k\Omega$

Contact 4
Audio, Ground
Contact 5

RGB, Ground (Blue)

Contact 7

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

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

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

Common Ground (shielding)

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