DENON

DVD VIDEO PLAYER

DVD-1710

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

Caution

 1) Do not attempt to open the cabinet. There are no parts you can service inside. Refer all servicing to qualified service personnel.

 2) Slot and openings in the cabinet and at the side or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating these opening must not be blocked or covered. Avoid enclosed spaces such as book cases unless proper ventilation is provided.

 3) Keep the unit away from the radiator heat sources.

 4) Avoid using near strong magnetic fields.

 5) Do not push objects of any kind into this through the cabinet slot as they could touch current carrying parts or short circuit parts resulting in a fire or electric shock.

 6) Never spill liquid of any kind on this unit.
 If liquid is spilled into the unit, consult qualified service engineer.

 7) Use this unit in a horizontal (flat) position only.

 8) This equipment is in Stand-by mode when it 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.

Declaration of Conformity

We declare under our sole responsibility that this product, to which this declaration relates, is in conformity with the following standards:
EN60065, EN 55013, EN55020, EN61000-3-2 and EN61000-3-3. Following the provisions of 73/23/EEC, 89/336/EEC and 93/68/EEC Directive.

TABLE OF CONTENTS

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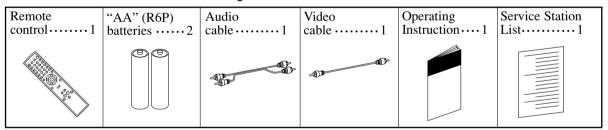
Apparatus Claims of U. S. Patent Nos, 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.

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 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 centre.

Supplied Accessories

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

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

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 and 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) DVD-R DVD-RW DVD+R DVD+RW (NOTE 2)	DVD VIDEO DVD VIDEO DVD R DVD R DVD R W DVD R W RW DVD+R RW DVD+ReWritable	Digital video (MPEG2)	12 cm
			8 cm
CD CD-R CD-RW (NOTE 3)	COMPACT DISC DIGITAL AUDIO COMPACT DISC DIGITAL AUDIO Recordable COMPACT DISC DIGITAL AUDIO ReWritable	Digital audio MP3 WMA (NOTE 4) Digital picture (JPEG)	12 cm
			8 cm
Video CD	COMPACT DIGITAL VIDEO VIDEO CD	Sound and Pictures	12 cm
			8 cm (Singles)
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 been finalized cannot be played. Depending on the disc's recording status, the disc may not be accepted or may not be played normally (the picture or sound may be not be smooth, etc.).
NOTE 3: Some of CD-R/CD-RW discs may be incompartible because of "scratch and stain of disc", "Recording condition", and "Characteristic of Recorder".
NOTE 4: [Plays Windows Media™] 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 colour 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.

(2)   (ALL)

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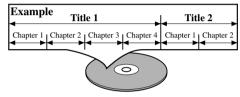
Disc Types

[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.

Example
Title 1				Title 2	
Chapter 1	Chapter 2	Chapter 3	Chapter 4	Chapter 1	Chapter 2

[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.

Example
Track 1	Track 2	Track 3	Track 4	Track 5	Track 6

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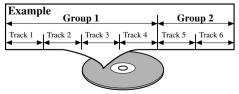
> **What is PBC?** "PBC" stands for the Playback Control. You can play interactive software using menu screens. Refer to instructions in the Video CD.

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 an group or track number.

Example
Group 1				Group 2	
Track 1	Track 2	Track 3	Track 4	Track 5	Track 6

> **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) 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 Theatre 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 Theatre System, Inc.

- **Dialog Speed**
  Playback in slightly faster or slower speed while keeping the sound quality as in the normal playback.
  Dialog speed is available only on discs recorded in the Dolby Digital format.

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

- **Still Mode**
  The shows of the still pictures can be varied in the still mode.

- **Random playback for audio CD, MP3, JPEG, and WMA**
  This player can shuffle the order of tracks to play them in random order.

- **Program playback for audio CD, MP3, JPEG, and WMA**
  You can program the order of tracks to play them in any desired order.

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

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

- **Subtitles in a desired language**
  You can select a desired language for the display 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 on a disc.

- **Ratings Control (Parental lock)**
  You can set the control level to limit playback of discs which may not be suitable for children.

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

- **Playing an MP3 disc**
  You can enjoy MP3 files which are recorded on CD-R/RW.

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

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

- **Dimmer**
  The brightness of the display can be varied.

- **Screen Saver**
  The screen saver program starts if there is no activity at the player or its remote for more than 5 minutes. The brightness of the display is darken by 75%. The program 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.
  Track search: Search for the track designated by user is possible.
  Time search: Search for the time designated by user is possible.

- **Repeat**
  Chapter: Repeated playback of the chapter of the disc being played is possible.
  Title: Repeated playback of the title of the disc being played is possible.
  Track: Repeated playback of the track of the disc being played is possible.
  All: Repeated playback is possible. (exclude DVD-Video)
  A-B: The part between A and B designated by user is possible.
  Group: Repeated playback of the folder of the MP3/JPEG/WMA disc being played is possible.

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

- **Marker**
  The part designated by user can be called back.

- **Resume Play**
  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 decoder.

- **Displaying a JPEG picture**
  Kodak Picture CDs can be played. Still images stored in JPEG format on CD-R/RW can also be played.
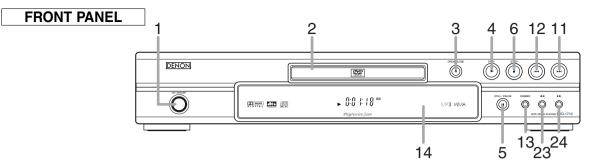
- **Reproducing WMA data**
  You can enjoy WMA files which are recorded on CD-R/RW.
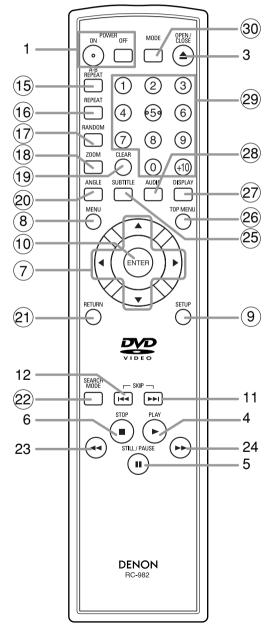
"Kodak Picture CD COMPATIBLE" is trademark of Eastman Kodak Company.

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

FRONT PANEL

REMOTE CONTROL

DENON
RC-982

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]**
7. **Cursor Buttons [page 15]**
   Use when making settings while watching the display on a TV screen.
8. **MENU Button [page 15]**
9. **SETUP Button [page 23]**
10. **ENTER Button [page 15]**
11. **▶▶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. **DIMMER Button [page 15]**
14. **Display, Remote Sensor Window**
15. **A-B REPEAT Button [page 18]**
16. **REPEAT Button [page 17]**
17. **RANDOM Button [pages 18, 20]**
18. **ZOOM Button [page 16]**
19. **CLEAR Button [page 17]**
20. **ANGLE Button [page 21]**
    Press to change the camera angle and see the same sequence being played back from a different angle.
21. **RETURN Button [page 20]**
22. **SEARCH MODE Button [page 17]**
23. **◀◀(Fast Reverse SEARCH) Button [page 16]**
24. **▶▶ (Fast Forward SEARCH) Button [page 16]**
25. **SUBTITLE Button [page 21]**
    Press to select a desired subtitle language.
26. **TOP MENU Button [page 15]**
27. **DISPLAY Button [page 20]**
28. **AUDIO Button [page 21]**
    Press to select a desired audio language or sound mode.
29. **Numeric Buttons [page 17]**
30. **MODE Button [page 18, 20]**
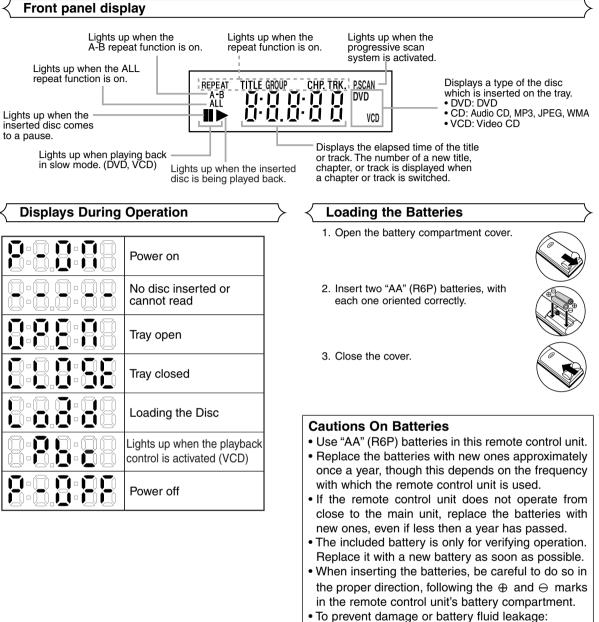
Tour of the remote control

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

	DVD	VCD	CD
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 A-B REPEAT	• Marks a segment between A and B for reprated playback.	• Marks a segment between A and B for reprated playback.	• Marks a segment between A and B for reprated playback.
REPEAT Button REPEAT	• Allows you to repeat play back of a Title or Chapter.	• Allows you to repeat play back of a Track or Disc.	• Allows you to repeat play back of a Track or Disc.
RANDOM Button RANDOM	——	——	• Allows you to random the playing order of tracks.
MODE Button MODE	• 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 random playback. • To activate the 3D sound (Virtual surround system).
ZOOM Button ZOOM	• To magnify part of the picture (x2/x4).	• To magnify part of the picture (x2).	——
ANGLE Button ANGLE	• Accesses various camera angles on the disc.	——	——
SUBTITLE Button SUBTITLE	• Accesses various subtitles on the disc.	——	——
AUDIO Button AUDIO	• Accesses various audio functions on the disc.	• To select STEREO, L-CH or R-CH.	• To select STEREO, L-CH or R-CH.
DISPLAY Button DISPLAY	• Displays the current disc mode.	• Displays the current disc mode.	• Displays the current disc mode.
SEARCH MODE Button SEARCH MODE	• 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, time or marker. • To rapidly return to a location on the disc.
OPEN/CLOSE Button OPEN / CLOSE	• 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 9 0 +10	• To select chapter or title directly.	• To select tracks directly.	• To select tracks directly.
CLEAR Button CLEAR	• 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. • To remove status No. in program input. • To clear the numbers entered incorrectly. • To cancel the A point for A-B Repeat.

Tour of the remote control
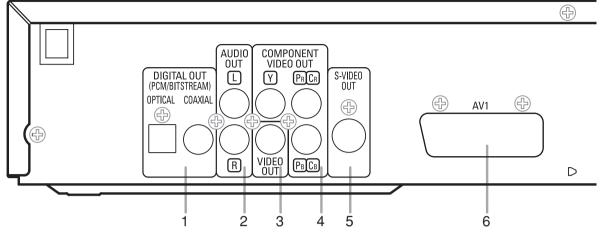
	DVD	VCD	CD
MENU Button MENU	• Brings up the Menu on a disc.	⎯⎯	⎯⎯
TOP MENU Button TOP MENU	• Brings up the Top Menu on a disc.	⎯⎯	⎯⎯
ENTER, Cursor Buttons	• Moves the cursor and determines its position.	• Moves the cursor and determines its position.	• Moves the cursor and determines its position.
RETURN Button RETURN	• 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 SETUP	• Brings up the DVD player's Setup menu.	• Brings up the DVD player's Setup menu.	• Brings up the DVD player's Setup menu.
SKIP Buttons ⎯ SKIP ⎯ |◄◄ ►►|	• To skip Chapters.	• To skip Tracks.	• To skip Tracks.
SEARCH Buttons ◄◄ ►►	• Allows you to search forward/backward through a disc.	• Allows you to search forward/backward through a disc.	• Allows you to search forward/backward through a disc.
STOP Button STOP ■	• To stop playback.	• To stop playback.	• To stop playback.
PLAY Button PLAY ►	• To begin disc play.	• To begin disc play.	• To begin disc play.
STILL/PAUSE Button STILL / PAUSE ❚❚	• 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.

Front panel display

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

Lights up when the repeat function is on.

Lights up when the progressive scan system is activated.

Lights up when the ALL repeat function is on.

REPEAT TITLE GROUP CHP. TRK. PSCAN
A-B
ALL
DVD
VCD

Displays a type of the disc which is inserted on the tray.
• DVD: DVD
• CD: Audio CD, MP3, JPEG, WMA
• VCD: Video CD

Lights up when the inserted disc comes to a pause.

Lights up when playing back in slow mode. (DVD, VCD)

Lights up when the inserted disc is being played back.

Displays the elapsed time of the title or track. The number of a new title, chapter, or track is displayed when a chapter or track is switched.

Displays During Operation

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

Loading the Batteries

1. Open the battery compartment cover.

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

3. Close the cover.

Cautions On Batteries
• Use "AA" (R6P) batteries in this remote control unit.
• Replace the batteries with new ones approximately once a year, though this depends on the frequency with which the remote control unit is used.
• If the remote control unit does not 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 $\oplus$ and $\ominus$ 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.

English

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. **2ch AUDIO OUT JACKS**
   Connect to the Audio input jacks of A/V-compatible TV or wide screen TV, Stereo system.
3. **VIDEO OUT JACK**
   Use a video cable to connect one of the jack to Video input on your A/V-compatible TV or wide screen TV, Stereo system.
4. **COMPONENT VIDEO OUT JACKS**
   Use these jacks if you have a TV with Component Video in jacks. These jacks provide C_B/P_B, C_R/P_R and Y video. Along with S-Video, Component Video provides the best picture quality.
5. **S-VIDEO OUT JACK**
   Use the S-Video cable to connect this jack to the S-Video jack on your A/V-compatible TV or wide screen TV for a higher quality picture.
6. **AV1 JACK**
   Connect to the 21-pin scart jack of a TV.

NOTE:
• When changing the VIDEO OUT setting (SCART, Component (I) or Component (P)), 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.

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 (P)" 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 (I)".

• Use a commercially available adaptor if the video input jacks of your TVs or monitors are the BNC type.
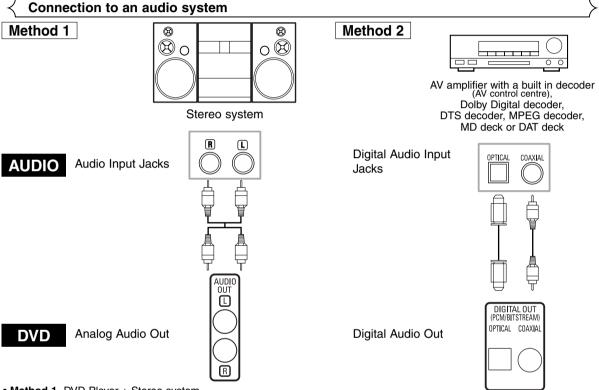
The following show examples of connections commonly used to connect the DVD player either TV and other components.

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 a more convincing, realistic ambience with powerful and high-quality surround sound of a professional standard, which can be heard in movie theatres. Use an audio optical or coaxial digital cable (not included) for the audio connections.

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

Connection to an audio system

Method 1

Stereo system

Method 2

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

AUDIO Audio Input Jacks

Digital Audio Input Jacks

OPTICAL   COAXIAL

DVD Analog Audio Out

AUDIO OUT
L

R

Digital Audio Out

DIGITAL OUT
(PCM/BITSTREAM)
OPTICAL   COAXIAL

• **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
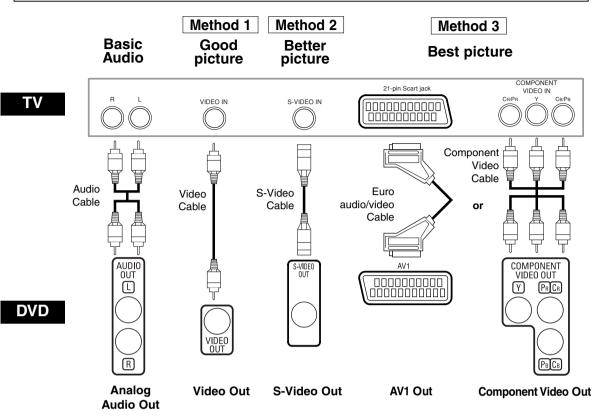
NOTES (for Method 2 only):
• When using an AV amplifier with a built in decoder (AV control centre), Dolby Digital, DTS, or MPEG decoder as shown in the Method 2, set "DOLBY DIGITAL", "DTS" or "MPEG" to "ON" accordingly for audio output in the setup mode (Refer to page 24). Set it to "OFF" for the decoder 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 (not supplied)

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

Connection to a TV (for video)

	Method 1	Method 2		Method 3
Basic Audio	Good picture	Better picture		Best picture

TV

R L   VIDEO IN   S-VIDEO IN   21-pin Scart jack   COMPONENT VIDEO IN   CR/PR   Y   CB/PB

Audio Cable   Video Cable   S-Video Cable   Euro audio/video Cable   Component Video Cable   **or**

DVD

AUDIO OUT L   VIDEO OUT   S-VIDEO OUT   AV1   COMPONENT VIDEO OUT Y PR CR   PB CB   R

Analog Audio Out   **Video Out**   **S-Video Out**   **AV1 Out**   **Component Video Out**

- **Method 1** DVD Player + TV with Video Input Jack
- **Method 2** DVD Player + TV with S-Video Input Jack
- **Method 3** DVD Player + TV with AV1 Jack or 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.
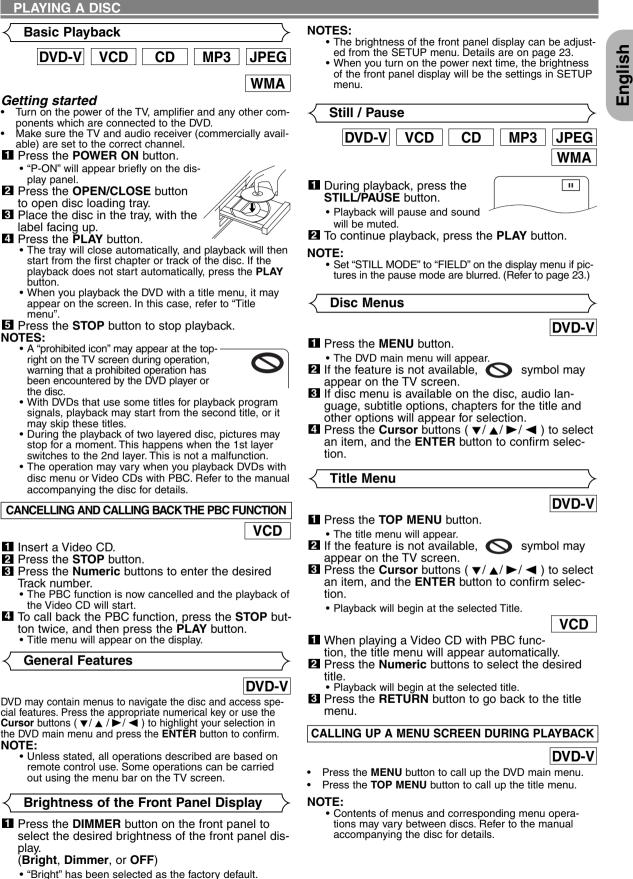
HOW TO CONNECT TO A TV WITHOUT AUDIO/VIDEO INPUT JACKS
If your TV does not have RCA type audio and video input jacks it is still possible to connect this DVD
player to your TV's 75-ohm coaxial antenna terminal using an optional Stereo Audio/Video RF Modulator, not included. Connect the audio and video 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.

Basic Playback

DVD-V	VCD	CD	MP3	JPEG

WMA

Getting started
* Turn on the power of the TV, amplifier and any other components which are connected to the DVD.
* Make sure the TV and audio receiver (commercially available) are set to the correct channel.
1 Press the **POWER ON** button.
* "P-ON" will appear briefly on the display panel.
2 Press the **OPEN/CLOSE** button to open disc loading tray.
3 Place the disc in the tray, with the label facing up.
4 Press the **PLAY** button.
* The tray will close automatically, and playback will then start from the first chapter or track of the disc. If the playback does not start automatically, press the **PLAY** button.
* When you playback the DVD with a title menu, it may appear on the screen. In this case, refer to "Title menu".
5 Press the **STOP** button to stop playback.
NOTES:
* A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc.
* With DVDs that use some titles for playback program signals, playback may start from the second title, or it may skip these titles.
* During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
* The operation may vary when you playback DVDs with disc menu or Video CDs with PBC. Refer to the manual accompanying the disc for details.

CANCELLING AND CALLING BACK THE PBC FUNCTION

VCD

1 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.
4 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.

Brightness of the Front Panel Display

1 Press the **DIMMER** button on the front panel to select the desired brightness of the front panel display.
(**Bright**, **Dimmer**, or **OFF**)
* "Bright" has been selected as the factory default.

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

Still / Pause

DVD-V	VCD	CD	MP3	JPEG

WMA

1 During playback, press the **STILL/PAUSE** button.
* Playback will pause and sound will be muted.
2 To continue playback, press the **PLAY** button.
NOTE:
* Set "STILL MODE" to "FIELD" on the display menu if pictures in the pause mode are blurred. (Refer to page 23.)

Disc Menus

DVD-V

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

Title Menu

DVD-V

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

VCD

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

CALLING UP A MENU SCREEN DURING PLAYBACK

DVD-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**

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

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

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

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

Picture Control

DVD | **VCD**

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

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

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

3 Press the **ENTER** button or the **Cursor** button (► or ◄) to adjust desired item.
- -6, -5, -4, -3, -2, -1, 0, +1, +2, +3, +4, +5, +6 can be selected.

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

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

Resume

DVD-V | **CD** | **VCD** | **MP3** | **JPEG**

WMA

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

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

NOTES:
- Some Video CDs with the PBC function resume playback from the beginning of the track.
- The resume information stays 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**

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

◄◄ Button

►► Button

- For Video CDs, the speed is 1(x2), 2(x8) or 3(x50).
- For Audio CDs, the approximate speed is x16.
- For MP3 and WMA, the approximate speed is x8.

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

Slow Forward / Slow Reverse

DVD-V | **VCD**

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

2 Press the ►► or ◄◄ button.
- Slow motion playback will begin and sound will be muted.

3 Press the ►► or ◄◄ button repeatedly to select the required speed.
- Slow forward or reverse speed is different depending on the disc. Approximate speed is 1 (1/16), 2 (1/8), and 3 (1/2).

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

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.

Zoom

DVD-V | **VCD** | **JPEG**

The Zoom function allows you to enlarge the video image and to pan through the enlarged 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 (▼/ ▲/ ►/ ◄) to move the zoomed picture across the screen.

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

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

EN

Title / Chapter Search

DVD-V

By using the SEARCH MODE button

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

`TT __/29`

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

By using the SKIP buttons ◄◄ ►►

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

Track Search

CD **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

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

By using the SEARCH MODE button

1 Press the **SEARCH MODE** button.
  • The track search display appears.

`TR __/15`

2 Within 30 seconds, select a desired track number using the **Numeric** buttons. For single digits press "0" first if the total track of the disc is more than 10 tracks.
  • Playback will start at the selected track.

By using the SKIP buttons ◄◄ ►►

During playback, press the **SKIP ►►** button to move to the next track. Press it repeatedly to skip subsequent tracks. Press the **SKIP ◄◄** button to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.
  • Track number will appear briefly on the front panel display.
  • If any **SKIP** button is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

NOTE:
  • The **SKIP ◄◄ ►►** buttons are not available when playback is stopped.

Time Search

DVD-V **CD** **VCD**

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

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

`⏱ __:__:__ TOTAL 1:23:45`

  • 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 display if the total time of the disc is less than 10 minutes.

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

Repeat

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

REPEAT TITLE / CHAPTER

DVD-V

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

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

OFF ──► CHAPTER ──► TITLE
(repeat **off**) (**current chapter** repeat) (**current title** repeat)

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 **REPEAT** button during playback.

  • The repeat mode changes as described below every time you press the button.
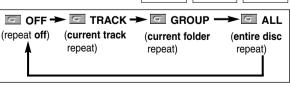
OFF ──► TRACK ──► ALL
(repeat **off**) (**current track** repeat) (**entire disc** repeat)

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.

MP3 **JPEG** **WMA**

OFF ──► TRACK ──► GROUP ──► ALL
(repeat **off**) (**current track** repeat) (**current folder** repeat) (**entire disc** repeat)

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

A-B REPEAT

DVD-V **CD** **VCD**

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

A -

• A- appears briefly on the TV screen.

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

A - B

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

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

OFF

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** button.
- A-B Repeat playback does not function during title, chapter, track or all repeat playback.

Programme Playback
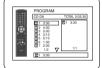
CD

You may determine the order in which tracks will play.

1 In stop mode, press the **MODE** button.
• The PROGRAM screen will appear.

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

PROGRAM
CD-DA   TOTAL 0:03:30
1 3:30   1 3:30
2 4:30
3 5:00
4 3:10
5 5:10
6 1:30
7 2:30
1/2   1/1
1 3:30

• Press the **CLEAR** button to erase the most recently entered program.

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

NOTES:
- While the programme is being played back, the **STOP** button works as follows.
- 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 programmes can be entered.
- To erase all programmes at once, select ALL CLEAR at the bottom of the list at step **2**.
- If you wish to repeat the current track in the programme, press the **REPEAT** button repeatedly until TRACK appears during playback. If you wish to repeat the entire programme press the **REPEAT** button repeatedly until ALL appears during playback.
- Refer to page 20 for programme playback of MP3, WMA, and JPEG.
- If eight or more tracks have been set in a programme, the user can switch the right part of the screen with the **SKIP** button |◄◄ or ►►|.

Random Playback

CD

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

1 In stop mode, press the **RANDOM** button.
• The RANDOM screen will appear.

RANDOM
CD-DA   TOTAL 0:45:55

RANDOM PROGRAM
--no indication--

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

NOTES:
- If you wish to repeat the current track in the random selection, press the **REPEAT** button repeatedly until TRACK appears during playback. If you wish to repeat the entire random selection press the **REPEAT** button repeatedly until ALL appears during playback.
- Refer to page 20 for random playback of MP3, WMA, and JPEG.

MP3 / JPEG / WMA Playback

MP3 **JPEG** **WMA**

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

1 Press the **Cursor** buttons (▲ or ▼) to select the desired group (folder) or track.
- To return to the previous screen, press the ◄ button.
- If a group (folder) is selected, press the ► or **ENTER** button to go on to the track selection screen. Press the **Cursor** buttons (▲ or ▼) to choose a track, then press the **PLAY** or **ENTER** button.
- If a track is selected, press the **PLAY** or **ENTER** button to start playing tracks. Starting from the one that has been chosen 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 "■" 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.
- 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 recognised.
- Up to 8 hierarchies can be created.
- If no MP3, JPEG or WMA files are found in the group, the group is not displayed.
- The DVD player can reproduce data recorded as per ISO 9660 Level 1, Level 2 or Joliet on the disc.
- It can also run a disc on which data is recorded in a multi-session.
- For more details of recording systems, refer to the instruction manual for the CD-R / CD-RW drive or the writing software.

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

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

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

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

Information on MP3, JPEG and WMA discs

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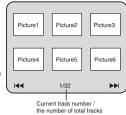

Kodak Picture CD
The DVD player can also run JPEG files stored on Kodak Picture CDs. The Picture CD is a service to convert photographs taken by a conventional film camera into digital data and write the data on a CD. The user can enjoy picture images on the television set by playing back the Picture CDs. For details of Kodak Picture CD, contact a shop that deals with developing service of Kodak Inc.

1 Press the **MENU** button. Kodak Picture CD menu appears.
  • If all menu items cannot be displayed in the screen scope, "▶▶|" appears at the right bottom of the screen, indicating that the user can view remaining items on the next page. "|◀◀" appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the centre bottom of the screen.

Current track number / the number of total tracks

  • If "▶▶|" is shown at the right bottom, use the **SKIP ▶▶|** button to view the next page. If "|◀◀" is shown at the left bottom, use the **SKIP |◀◀** button to view the previous page.
  • It may take some time until all menu items are displayed on the menu screen.

2 Press the **Cursor** buttons (◀/ ▶/ ▲/ ▼), select a desired track to be played, then press the **PLAY** or **ENTER** button.
  • If a Kodak Picture CD file is selected, an image will be played back from the selected track and go to the next one in turn.

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

Notes on JPEG and Kodak Picture CD:
  • A track is displayed for five seconds and then the next track is displayed.
  • Every press on the ▶ button will turn the image clockwise by 90 degrees when an image is displayed. A press on the ◀ button will turn the image counterclockwise by 90 degrees.

Notes on WMA:
  • The DVD player can reproduce data recorded as ISO 9660 level 2 with 31 characters file name included punctuation marks. The name of file can be displayed in up to 25 characters.
  • Maximum of 8 subfolders can be recognised.
  • Maximum of 255 folders can be recognised.
  • Maximum of 512 files can be recognised.
  • It can also be displayed tag information of WMA at least 32 characters.
  • A file with an extension of Joliet as Unicode format in up to 32 characters can be recognised.

Slide Show Mode

JPEG

You can switch to the slide show mode 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 each file during playback.
1 Press the **DISPLAY** button.
- The name of the file currently in play will be displayed.

> ► TRACK 01

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.

<Example: MP3>

> TR 1/36 0:01:15 ↺T ►

- ↺ will be displayed when the repeat play has been selected.
  - ↺ T   - indicates Track repeat
  - ↺ G   - indicates Group (folder) repeat
  - ↺ A   - indicates Disc repeat

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

WMA

You can check each file during playback.
1 Press the **DISPLAY** button.
- The name of the file currently in play will be displayed.

> ► TRACK 01

2 Press the **DISPLAY** button.
- Title name based on tag information currently in play will be displayed.

> TITLE NAME

3 Press the **DISPLAY** button.
- Artist name based on tag information currently in play will be displayed.

> ARTIST NAME
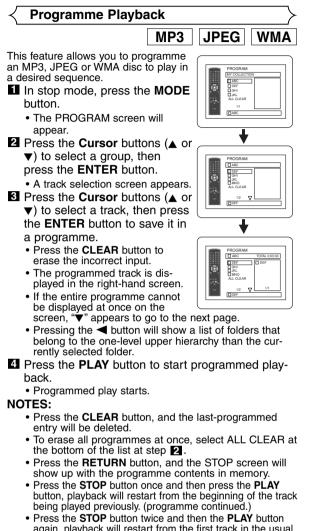
4 Press the **DISPLAY** button to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.

> TR 1/36 0:01:15 ↺T ►

- ↺ will be displayed when the repeat play has been selected.
  - ↺ T   - indicates Track repeat
  - ↺ G   - indicates Group (folder) repeat
  - ↺ A   - indicates Disc repeat

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

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

Programme Playback

MP3   **JPEG**   **WMA**

This feature allows you to programme an MP3, JPEG or WMA disc to play in a desired sequence.
1 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, "▼" appears to go to the next page.
- Pressing the ◄ button will show a list of folders that belong to the one-level upper hierarchy than the currently selected folder.

4 Press the **PLAY** button to start programmed playback.
- Programmed play starts.

NOTES:
- Press the **CLEAR** button, and the last-programmed entry will be deleted.
- To erase all programmes 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 program.
- 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 have been set in a programme, the user can switch the right part of the screen with the **SKIP** button I◄◄ or ►►I.

Random Playback

MP3   **JPEG**   **WMA**

1 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
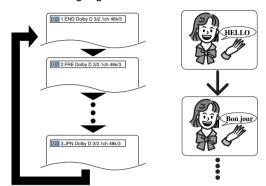
The DVD player allows you to select a language during DVD disc (if multi language available) playback.

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

**2** Press the **AUDIO** button repeatedly to select your desired language.
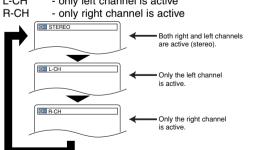
NOTES:
- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Some discs allow audio language setting on the disc menu. (Operation varies between discs. Refer to the manual accompanying the disc.)
- Pressing the **AUDIO** button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow 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 Dialog Speed Play. (Refer to page 22.)

Stereo Sound Mode

CD **VCD**

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

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

Both right and left channels are active (stereo).

Only the left channel is active.

Only the right channel is active.

NOTES:
- If the Virtual Surround setting is ON, the sound mode will be fixed to STEREO, and can not be changed.
- 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 during DVD disc (if available) playback.
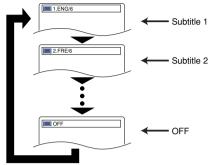
1 Press the **SUBTITLE** button during playback.

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

Subtitle 1

Subtitle 2

OFF

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

NOTES:
- Some discs allow subtitle language setting on the disc menu. (Operation varies between discs. Refer to the manual accompanying the disc.)
- Pressing the **SUBTITLE** button may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio 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 with no subtitle language, 'NOT AVAILABLE' will be displayed.
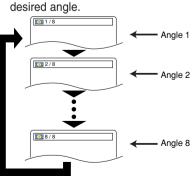
Camera Angle

DVD-V

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

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

2 Press the **ANGLE** button repeatedly to select your desired angle.

Angle 1

Angle 2

Angle 8

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

Changing the On-Screen Display

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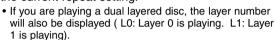
You can check information about the current disc by pressing the **DISPLAY** button on the remote control.

1 Press the **DISPLAY** button during playback to show the current chapter.

`CH 9/49  0:00:00 -0:03:30   ▶`

• 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.

`BIT ||||||    ςT  L1   ▶`

• 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.

CD **VCD**

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
• ςC - indicates Chapter repeat
• ςT - indicates Title or Track repeat
• ςG - indicates Group (folder) repeat
• ςA - indicates Disc repeat
• AςB - indicates A-B repeat

Marker Setup Screen

DVD-V **CD** **VCD**

Use markers to memorise your favourite places on a disc.

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

`MKR 1 2 3 4 5 6 7 8 9 10 AC`
`TT  _ : _ _ : _ _`

2 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 reaches the desired point, press the **ENTER** button.
• The Title or Track and elapsed playing time will appear in the TV screen.

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

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 ◀ 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.

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

Virtual Surround

DVD-V **VCD** **CD** **MP3** **WMA**

You can enjoy surround-sound effect over two speakers.

1 During playback, press the **MODE** buttonrepeatedly until the Virtual Sirround setting appears.

`◯◯ OFF`

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

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

`CH 2/5 0:00:00 -0:07:00  ▶▶♪♪`

• "OFF" appears on the TV screen.

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

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

NOTES:
• Every time you press the **STOP** button, the setting will be turned OFF.
• Subtitle can be viewed during this function.
• Picture Control and Audio (language) setting cannot be changed while using this mode.
• Virtual Surround does not function while using this mode.
• This feature may not work at some point in a disc.
• When using digital audio connection (COAXIAL or OPTICAL), the LPCM sound 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 INITIALISE mode (Refer to pages 23 and 24) are available. QUICK mode consists of the setting menus often needed, and you can make all settings required in CUSTOM mode. You can make the settings of the items with **QUICK** mark in QUICK mode.

Language Setting

Language options are not available with some discs.
1 Press the **SETUP** button in STOP mode.
2 Press the **Cursor** buttons (◄ or ►) to select 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 confirm.
4 Press the **Cursor** buttons (▲ or ▼) to select the below items, then press the **ENTER** button.

DIALOG (Default : ORIGINAL)
 • Sets the audio language.

SUBTITLE (Default : OFF)
 • Sets the subtitle language.

DISC MENU (Default : ENGLISH)
 • Sets the language for DVD Menu.

OSD (Default : ENGLISH) **QUICK**
 • Sets the language for the On-Screen display.
5 Press the **Cursor** buttons (▲ or ▼) to select a setting, then press the **ENTER** button.
 • If OTHER is selected in the DIALOG, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to the language code list on page 25).
 • Only the languages supported by the disc can be selected.
6 Press the **SETUP** button to exit.
NOTE:
 • Language Setting for DIALOG and SUBTITLE is not available with some discs. Then use the **AUDIO** and **SUBTITLE** buttons.
 Details are on pages 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.
 • CUSTOM mode will appear.
3 Press the **Cursor** buttons (◄ or ►) to select DISPLAY, then press the **ENTER** button to confirm.
4 Press the **Cursor** buttons (▲ or ▼) to select the below items, then press the **ENTER** button.

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

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

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

ANGLE ICON (Default : ON)
 • Press the **ENTER** button repeatedly to turn Angle mark ON or OFF.

AUTO POWER OFF (Default : ON)
 • Press the **ENTER** button repeatedly to turn Auto Power ON or OFF.
 • It will turn the DVD player to off automatically after 35 minutes of no use.

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 INTER-LACE or COMPONENT PRO-GRESSIVE), then press the **EN-TER** button.
 • This setting will be effective when you exit the setup screen by pressing the **SETUP** button.
 • The default setting is SCART.
 • When VIDEO OUT is COMPONENT PROGRESSIVE, "P.SCAN" appears on the DVD player's front panel display after you exited the setup screen.
 • Refer to page 12 for more details.

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

NOTES:
 • Be sure to press the **SETUP** button, or the setting will not work.
 • When changing the VIDEO OUT setting (SCART, COMPONENT INTERLACE or COMPONENT PRO-GRESSIVE), 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 Setting

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 CUSTOM, then press the **ENTER** button.
• CUSTOM mode will appear.

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

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

DRC (Dynamic Range Control) (Default : ON)
• To compress the range of sound volume.
• DRC function is available only on the discs that are recorded in the Dolby Digital format.

LPCM SELECT (Default : OFF)
• Set to ON when outputting in 48kHz.
• This function is available only on digital outputting of a disc recorded in 96 kHz.

When playing disc with 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.

MPEG (Default: OFF) `QUICK`
ON: Output MPEG sound. Set to ON when the unit is connected to an MPEG decoder.
OFF: Convert the MPEG sound to PCM.

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

Ratings Control

Ratings Control limits playback of discs with unsuitable audience ratings. A 4-digit password established by the user will unlock the parental lock.
This feature allows you to prevent discs with objectionable scenes from being played by your children.

RATING LEVEL

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

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

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

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

4 Press the **Numeric** buttons to enter your 4-digit password.
• When doing this for the first time, enter any 4-digit number by pressing the number buttons (except for 4737), then press the **ENTER** button. That number will be used as the password from the second time onward. Record your password in case you forget it.
• If you forget the password, press **4**, **7**, **3**, **7**. The original password will be cleared and parental levels will be set to "ALL". Enter a new 4-digit password, then press the **ENTER** button.

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

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

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

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

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

IF YOU FORGET THE PASSWORD

1 Press **4**, **7**, **3**, **7** at step **4**.
• Password will be cleared and rating level will be set to ALL.

2 Repeat steps **5** 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.

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

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

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

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

NOTE:
• When you cancel to INITIALIZE at step **3**, select NO.

Language	Code	Language	Code	Language	Code	Language	Code
A-B		Frisian	5271	Malay	5965	Somali	6561
Abkhazian	4748	Galician	5358	Malayalam	5958	Spanish [SPA]	5165
Afar	4747	Georgian	5747	Maltese	5966	Sundanese	6567
Afrikaans	4752	German [GER]	5051	Maori	5955	Swahili	6569
Albanian	6563	Greek [GRE]	5158	Marathi	5964	Swedish [SWE]	6568
Amharic	4759	Greenlandic	5758	Moldavian	5961	**T**	
Arabic	4764	Guarani	5360	Mongolian	5960	Tagalog	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 "TROUBLESHOOTING GUIDE" in this Operating Instruction, the laser optical pickup unit may be dirty. Consult your dealer or an Authorised Service Centre for inspection and cleaning of the laser optical pickup unit.

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

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

TROUBLESHOOTING GUIDE

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

Problem	Solution
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 (See Connecting to a TV)
Distorted picture	–Sometimes a small amount of picture distortion may appear. This is not a malfunction. –Connect the player directly to the TV.
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.
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.
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
Disc can't 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.
No return to start-up screen when disc is removed	–Reset the player by switching the player off, then on again.
The player does not respond to the remote control	–Aim the remote control directly at the sensor on the front of the player. –Reduce the distance to the player. –Replace the batteries in the remote control. –Re-insert the batteries with their polarities (+/– signs) as indicated.
Buttons do not work or player stops responding	–To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.
Player does not respond to some operating commands during playback	–Operations may not be permitted by the disc. Refer to the instructions of the disc.
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.
The password for rating level has been forgotten	–Enter the default password "4737", then your forgotten password will be cleared

NOTES:

Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operating Instruction for details on correct operations.

• Playback from a desired track and random playback are not available during program playback.
• Some functions are prohibited on some discs.
• When playing Video CDs with PBC functions, some operations (e.g., select and track repeat) cannot be performed unless the function is cancelled temporarily.

SPECIFICATIONS

SIGNAL SYSTEM

PAL colour

APPLICABLE DISCS

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

S-VIDEO OUTPUT

Y output level: 1Vp-p (75Ω/ohms)
C output level: 0.30Vp-p
Output connectors: S connectors, 1 set

VIDEO OUTPUT

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

COMPONENT OUTPUT

Y output level: 1Vp-p (75Ω/ohms)
C_B output level: 0.7Vp-p (75Ω/ohms)
C_R output level: 0.7Vp-p (75Ω/ohms)
Output connector: Pin jacks, 1 set

AUDIO/VIDEO

21-pin scart jack

AUDIO OUTPUT

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

AUDIO OUTPUT PROPERTIES

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

DIGITAL AUDIO OUTPUT

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

POWER SUPPLY

AC 220-240V, 50Hz

POWER CONSUMPTION

12W (Standby: 1.5W)

MAXIMUM EXTERNAL DIMENSIONS

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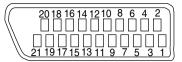
MASS

1.9 Kg (4.19 lbs)

REMOTE CONTROL UNIT

RC-982
Infrared pulse type
Supply: DC 3V, 2 R6P/AA batteries

PIN CONNECTION (AV1)

English

Contacts, signal levels and impedances

Contact 1
Audio Output (Right): 2.0Vrms/ 1kΩ
Contact 3
Audio Output (Left): 2.0Vrms/ 1kΩ
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): 0.7Vp-p/75Ω
Contact 13
RGB, Ground (Red)
Contact 14
RGB Switching Control, Ground
Contact 15
RGB Output (Red): 0.7Vp-p/75Ω
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)