



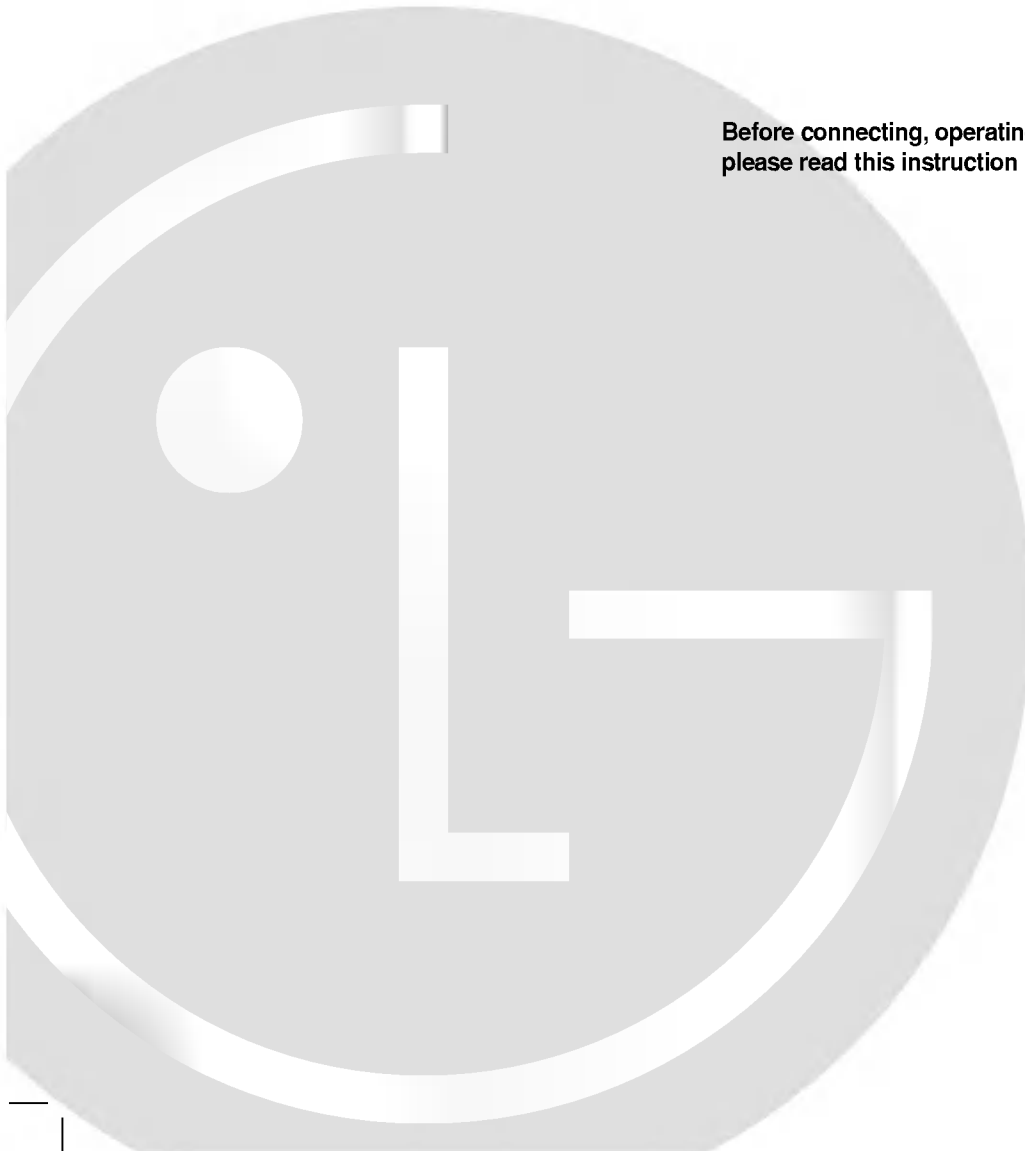
# DVD PLAYER

## OWNER'S MANUAL

MODEL : DS6522E



Before connecting, operating or adjusting this product,  
please read this instruction booklet carefully and completely.



## Safety Precautions



**WARNING**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



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



This 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 product.

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

CLASS 1 LASER PRODUCT  
KLASSE 1 LASER PRODUKT  
LUOKAN 1 LASER LAITE  
CLASS 1 LASER APPARAT  
CLASSE 1 PRODUIT LASER

### CAUTION:

This Digital Video Disc Player employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference should the unit require maintenance, contact an authorized service location (see service procedure).

Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

**CAUTION:** The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.



### NOTES ON COPYRIGHTS:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission.

This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, picture noise will appear.

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

**SERIAL NUMBER:** The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_

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### About the symbols for instructions

-  Indicates hazards likely to cause harm to the unit itself or other material damage.
-  Indicates special operating features of this unit.
-  Indicates tips and hints for making the task easier.

## Before Use

### Playable Discs

|   |                                       |
|---|---------------------------------------|
|  | DVD<br>(8 cm / 12 cm disc)            |
|  | Video CD (VCD)<br>(8 cm / 12 cm disc) |
|  | Audio CD<br>(8 cm / 12 cm disc)       |

In addition, this unit can play a SVCD, CD-R or CD-RW that contains audio titles or MP3 files.

#### Notes

- Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.
- The unit cannot play discs that contain data, other than MP3 and CD-DA data.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregularly shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

#### Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available or other functions may be added.

Refer also to the instructions supplied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.

#### Regional code of the DVD player and DVDs

This DVD player is designed and manufactured for playback of region “2” encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled “2” or “ALL”. If you try to play any other discs, the message “Check Regional Code” will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.



#### Note on DTS-encoded CDs

To avoid possible damage to the audio system, turn down the volume before playing back such discs, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of the unit.

### Disc-related terms

#### Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album.

Each title is assigned a title reference number enabling you to locate it easily.

#### Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles. A title is composed of one or several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, chapters may not be recorded.

#### Track (Video CD and audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

#### Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called “Scenes”. Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.

A scene is composed of one or several tracks.

### Types of video CDs

There are two types of video CDs:

#### Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

#### Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

## Before Use (Continued)

### Precautions

#### Handling the unit

##### **When shipping the unit**

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

##### **When setting up the unit**

The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

##### **To keep the exterior surfaces clean**

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

#### Cleaning the unit

##### **To clean the cabinet**

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzene, or thinner, as these might damage the surface of the unit.

##### **To obtain a clear picture**

The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

For details, please contact your nearest dealer.

### Notes on Discs

#### Handling discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface. Do not stick paper or tape on the disc.



#### Storing discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

#### Cleaning discs


Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.






### About Symbols

#### About the symbol display

" " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc.

#### About the disc symbols for instructions

A section whose title has one of the following symbol is applicable only to the disc represented by the symbol.

-  DVD
-  Video CDs with the PBC (playback control) function.
-  Video CDs without the PBC (playback control) function.
-  Audio CDs.
-  MP3 disc.

# Front Panel and Display Window

## Standby indicator

Lights red when the player is in Standby mode (off).

## POWER

Switches the player ON and OFF.

## Forward SKIP/SCAN (▶▶ / ▶▶)

Go to NEXT chapter/track.

Press and hold for two seconds for a fast forward search.

## Reverse SKIP/SCAN (◀◀ / ◀◀)

Go to beginning of current chapter/track or to PREVIOUS chapter/track.

Press and hold for two seconds for a fast reverse search.

## OPEN/CLOSE (▲)

Opens or closes the disc tray.

## STOP (■)

Stops playback.

## PAUSE (||)

Pause playback temporarily / press repeatedly for frame-by-frame playback.

## Disc Tray

Insert a disc here.

## PLAY (▶)

Starts playback.



## Display window

Shows the current status of the player.

## Remote Sensor

Point the DVD Player remote control here.

ANGLE active

TITLE Indicates current title number

CHP/TRK Indicates current chapter or track number

■ DVD inserted  
 CD Audio CD inserted  
 VCD Video CD inserted  
 MP3 MP3 disc inserted

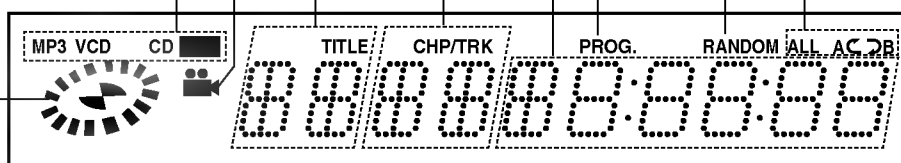
Indicates total playing time/elapsed time

PROG. Programmed playback active

RANDOM RANDOM playback active

Indicates current player function: Playback, Pause, etc.

Indicates repeat mode



## Remote Control

**DVD/TV select button**  
Selects operational mode of remote control.

**POWER**  
Switches DVD Player ON and OFF.

**DISPLAY**  
Accesses On-Screen display

**◀ ▶ ▲ ▼ (left/right/up/down)**  
- Selects an item in the menu  
- Selects channel of TV and changes volume of TV.

**MENU**  
Accesses menu on a DVD disc.

**Reverse SLOW (◀) •**  
Reverse slow playback.

**PAUSE/STEP (⏸) •**  
Pauses playback temporarily/ press repeatedly for frame-by-frame playback.

**STOP (■) •**  
Stops playback.

**Forward SLOW (▶) •**  
Forward slow playback.

**0-9 number buttons**  
Selects numbered items in a menu.

**AUDIO •**  
Selects an audio language (DVD) or an audio channel (CD).

**SUBTITLE •**  
Selects a subtitle language.

**ANGLE •**  
Selects a DVD camera angle if available

**SETUP •**  
Accesses or removes setup menu.

**MARKER •**  
Marks any point during playback.

**SEARCH •**  
Displays MARKER SEARCH menu.

**OPEN/CLOSE**  
Opens and closes the disc tray.

**SOUND/MUTE**  
- Selects 3D SURROUND during disc playback.  
- turns off TV sound.

**RETURN/TV AV**  
- Removes the setup menu.  
- Displays the menu of a video CD with PBC.  
- Selects AUX A/V input channel.

**SELECT/ENTER**  
Acknowledges menu selection.

**TITLE**  
Displays the discs Title menu, if available.

**• Forward SKIP/SCAN (▶▶▶)**  
Search forward\*/ go to next chapter or track.

**• PLAY (▶)**  
Starts playback.

**• Reverse SKIP/SCAN (◀◀◀)**  
Search backward\*/ go to beginning of current chapter or track or go to previous chapter or track.

\* Press and hold button for about two seconds.

**PROGRAM**  
Accesses or removes program menu.

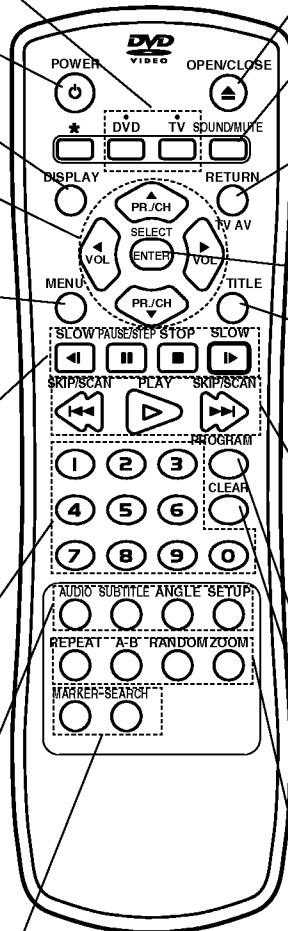
**CLEAR**  
Removes a track number on the program menu or a mark on the MARKER SEARCH menu.

**• REPEAT**  
Repeat chapter, track, title, all.

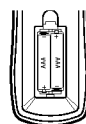
**• A-B**  
Repeat sequence.

**• RANDOM**  
Plays tracks in random order.

**• ZOOM**  
Enlarges video image.



### Remote control battery installation



Detach the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with ⊕ and ⊖ aligned correctly.



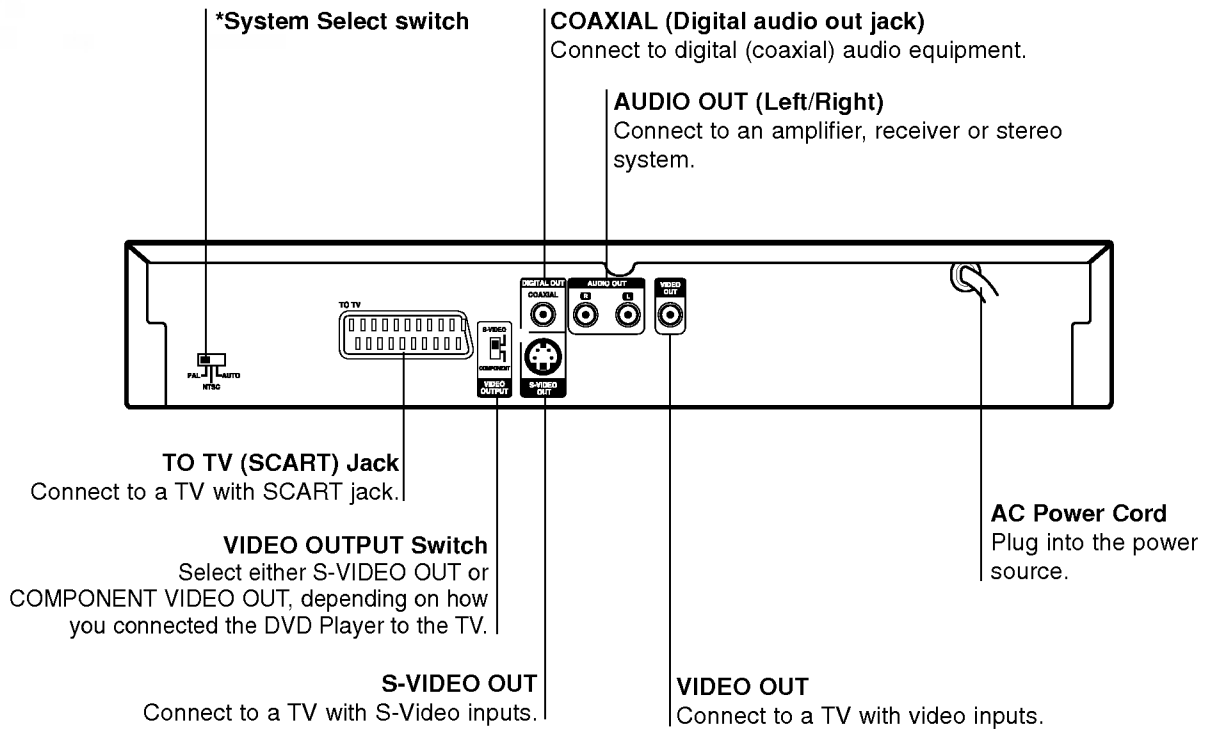
**Caution**  
Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

### Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- **Distance:** About 23 ft (7 m) from the front of the remote sensor.
- **Angle:** About 30° in each direction of the front of the remote sensor.

## Rear Panel



### \* System Select switch

You can enjoy NTSC or PAL discs by using System Select switch to choose the appropriate system.

**PAL:** Select when DVD player is connected with PAL-TV.

**NTSC:** Select when DVD player is connected with NTSC-TV.

**AUTO:** Select when DVD player is connected with Multi system TV.

- When the selected System Select switch does not coincide with the system of your TV, normal color picture may not be displayed.
- Set System Select switch when the power is turned off.



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



## Connections

### Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Use only one of the connections described below.
- Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.
- For better sound reproduction, connect the player's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See "Connecting to optional equipment" on page 10.

### Caution

- Make sure the DVD Player is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect the DVD Player's AUDIO OUT jack to the phono in jack (record deck) of your audio system.
- Do not connect your DVD Player via your VCR. The DVD image could be distorted by the copy protection system.

## Connecting to a TV

- Make one of the following connections, depending on the capabilities of your existing equipment.
- When using the SCART's RGB signal, set the Video Output Select switch to COMPONENT. When using the S-VIDEO OUT jack, set the Video Output Select switch to S-VIDEO.

### Video connection

**1** Connect the VIDEO OUT jack on the DVD Player to the video in jack on the TV using the video cable supplied (V).

**2** Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV (A) using the supplied audio cables.

### S-Video connection

**1** Connect the S-VIDEO OUT jack on the DVD Player to the S-Video in jack on the TV using the optional S-Video cable (S).

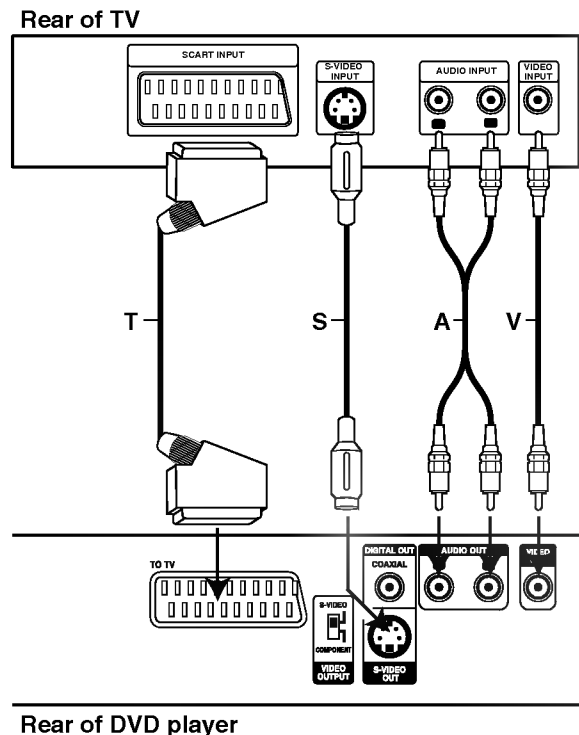
**2** Connect the Left and Right AUDIO OUT jacks of the DVD Player to the audio left/right in jacks on the TV (A) using the supplied audio cables.

### SCART connection

Connect the TO TV scart jack on the DVD Player to the corresponding in jacks on the TV using the scart cable (T).

### Note

For using SCART's RGB signal, set the Video Output Select switch to "COMPONENT".



Rear of DVD player

## Connections (Continued)

### Connecting to Optional Equipment

#### Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround

Connect the Left and Right AUDIO OUT jacks on the DVD Player to the audio left and right in jacks on your amplifier, receiver, or stereo system, using the supplied audio cables (A).

#### Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS)

**1** Connect one of the DVD Player's DIGITAL AUDIO OUT jacks (COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (coaxial X) audio cable.

**2** You will need to activate the player's digital output. (See "Digital Audio Output" on page 13).

#### Digital Multi-channel sound

A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your DVD Player (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

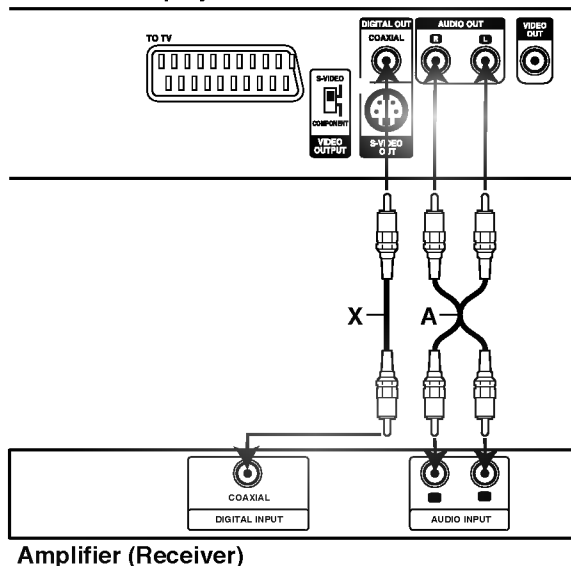
#### Caution:

Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

#### Notes

- If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all.
- Six Channel Digital Surround Sound via digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder.
- To see the audio format of the current DVD in the on-screen display, press AUDIO.

#### Rear of DVD player




#### Amplifier (Receiver)

## Before Operation

### Caution:

Before using the remote control, press the **DVD** or **TV** button to select the device to be operated.

## General Explanation

This manual gives basic instructions for operating the DVD Player. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol  appears on the TV screen, indicating that the operation is not permitted by the DVD Player or is not available on the disc.

## On-Screen Display

General playback status can be displayed on the TV screen. Some items can be changed on the menu.

### On-screen display operation









**1** Press **DISPLAY** during playback.

**2** Press **▲** or **▼** to select an item.  
The selected item will be highlighted.

**3** Press **◀** or **▶** to change the setting of an item.






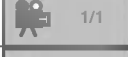
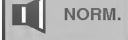
The number buttons can be also be used for setting numbers (e.g., title number). For some functions, press **SELECT/ENTER** to execute the setting.




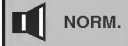
### Temporary Feedback Field Icons

|   |  |
|---|--|
|  | Repeat Title                               |
|  | Repeat Chapter                             |
|  | Repeat Track (non-PBC Video CDs only)      |
|  | Repeat All Tracks (non-PBC Video CDs only) |
|  | Repeat A-B                                 |
|  | Repeat Off                                 |
|  | Resume play from this point                |
|  | Action prohibited or not available         |

### Notes

- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

| Items  |   | Function (Press ▲/▼ to select desired item)  | Selection Method                |
|--|---|--|---------------------------------|
| Title Number                                 |  | Shows the current title number and total number of titles, and skips to the desired title number.          | ◀ / ▶, or Numbers, SELECT/ENTER |
| Chapter Number                               |  | Shows the current chapter number and total number of chapters, and skips to the desired chapter number.    | ◀ / ▶, or Numbers, SELECT/ENTER |
| Time search                                  |  | Shows the elapsed playing time, and searches the point by the elapsed time directly.                       | Numbers, SELECT/ENTER           |
| Audio language and Digital Audio Output mode |  | Shows the current audio soundtrack language, encoding method, and channel number, and changes the setting. | ◀ / ▶                           |
| Subtitle language                            |  | Shows the current subtitles language, and changes the setting.   | ◀ / ▶                           |
| Angle  |  | Shows the current angle number and total number of angles, and changes the angle number.                   | ◀ / ▶                           |
| Sound  |  | Shows the current sound mode, and changes the setting.   | ◀ / ▶                           |

| Items         |   | Function (Press ▲/▼ to select desired item)   | Selection Method                |
|---------------|---|---|---------------------------------|
| Track Number  |  | Shows the current track number, total number of tracks and PBC On mode, and skip to the desired track number. | ◀ / ▶, or Numeric, SELECT/ENTER |
| Time          |  | Shows the elapsed playing time (Display only)   | -                               |
| Audio Channel |  | Shows the audio channel, and changes the audio channel.   | ◀ / ▶                           |
| Sound         |  | Shows the current sound mode, and changes the setting.  | ◀ / ▶                           |

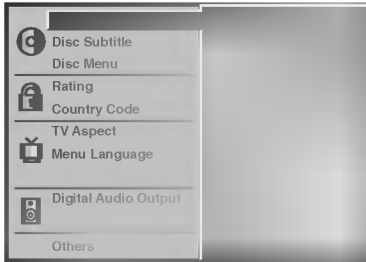
## Before Operation (Continued)

### Initial Settings

You can set your own Personal Preferences on the player.

### Initial Settings General Operation

- 1 Press **SETUP**.  
The setup menu appears.



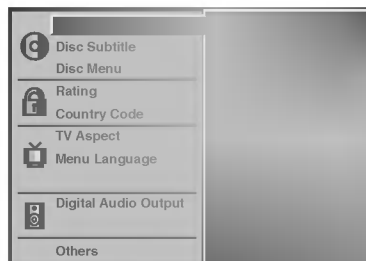
- 2 Press **▲▼** to select the desired item.  
The screen will show the current setting for the selected item, as well as alternate setting(s).
- 3 While the desired item is selected, press **▶**, then **▲▼** to select the desired setting.
- 4 Press **SELECT/ENTER** to confirm your selection.  
Some items require additional steps.
- 5 Press **SETUP, RETURN, or PLAY** to exit the setup menu.

### Language

#### Disc Language

Select a language for the disc's Menu, Audio, and Subtitle.

**Original** : The original language set for the disc is selected.  
**Other** : To select another language, press number buttons to enter the corresponding 4-digit number according to the language code list on page 23. If you enter the wrong language code, press **CLEAR**.



### Menu Language

Select a language for the setup menu. This is the menu you see when you press **SETUP**.



### Picture

#### TV Aspect

- 4:3 Letterbox**: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.
- 4:3 Panscan**: Select when a standard 4:3 TV is connected. Displays pictures cropped to fill your TV screen. Both sides of the picture are cut off.
- 16:9 Wide**: Select when a 16:9 wide TV is connected.



## Before Operation (Continued)

### Sound

#### Digital Audio Output

Each DVD disc has a variety of audio output options. Set the player's Digital Audio Output according to the type of audio system you use.

**DOLBY DIGITAL/PCM:** Select "DOLBY DIGITAL/PCM" if you connected the DVD Player's DIGITAL OUT jack to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).

**Stream/PCM:** Select "Stream/PCM" if you connected the DVD Player's DIGITAL OUT jack to an amplifier or other equipment with a DTS decoder, Dolby Digital decoder or MPEG decoder.

**PCM:** select when connected to a 2-channel digital stereo amplifier. The DVD player outputs sounds in the PCM 2ch format when you play a DVD video disc recorded on the Dolby Digital, MPEG1, or MPEG2 recording system.



#### Sample Frequency

To change the Sample Frequency setting, first select the desired Digital Audio Output as indicated as above. If your receiver or amplifier is NOT capable of handling 96KHz signals, select 48KHz. When this choice is made, this unit will automatically convert any 96KHz signals to 48KHz so your system can decode them. If your receiver or amplifier is capable of handling 96KHz signals, select 96KHz. When this choice is made, this unit will pass each type of signal through without any further processing.

### Others

The DRC, Vocal and PBC settings can be changed.

- Press ▲/▼ to select the desired item and press SELECT/ENTER. The setting of the selected item is changed between On and Off.



#### Dynamic Range Control (DRC)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

#### Vocal

Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound.

#### PBC

Set Playback Control (PBC) to On or Off.

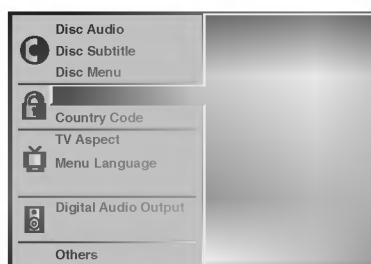
- On:** Video CDs with PBC are played according to the PBC.
- Off:** Video CDs with PBC are played the same way as Audio CDs.

## Before Operation (Continued)

### Parental Control

#### Rating

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country-dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.



**1** Select "Rating" on the Setup menu using the ▲ and ▼ buttons.

**2** While "Rating" is selected, press ►.

**3** When you have not entered a password yet. Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password, then press SELECT/ENTER. Enter the 4-digit password again and press SELECT/ENTER to verify.  
**When you have already entered a password;** Enter a 4-digit password using the numbered buttons to confirm the personal 4-digit security password, then press SELECT/ENTER.

If you make a mistake before pressing SELECT/ENTER, press CLEAR and enter 4-digit security password again.

**4** Select a rating from 1 to 8 using the ▲▼ buttons. One (1) has the least playback restrictions. Eight (8) has the most playback restrictions.

**Unlock:** If you select Unlock, Parental Control is not active. The disc will play in full.

**Ratings 1 to 8:** Some discs contain scenes not suitable for children. If you set a rating for the player, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

**5** Press SELECT/ENTER to confirm your rating selection, then press SETUP to exit the menu.

#### Country Code

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country Code List", page 24.).



**1** Select Country Code using the ▲▼ buttons on the setup menu.

**2** While Country Code is selected, press ►.

**3** Follow step 3 of "Rating" on left.

**4** Select the first character using the ▲▼ buttons.

**5** Shift the cursor using ◀▶ buttons and select the second character using ▲▼ buttons.

**6** Press SELECT/ENTER to confirm your country code selection, then press SETUP to exit the menu.

#### Note

Confirmation of the 4-digit password is necessary when the code is changed (see "Changing the 4-digit code" below).

#### Changing the 4-digit code

- 1 Follow Steps 1-2 as shown above to the left (Rating).
- 2 Enter the old code, then press SELECT/ENTER.
- 3 Select Change using the ▲▼ buttons then press SELECT/ENTER.
- 4 Enter the new 4-digit code, then press SELECT/ENTER.
- 5 Enter exactly the same code a second time and verify by pressing SELECT/ENTER.
- 6 Press SETUP to exit the menu.

#### If you forget your 4-digit code

If you forget your password, to clear the current password, follow the procedure below.

- 1 Press SETUP to display the setup menu.
- 2 Use the Number buttons to enter the 6-digit number "210499".

The 4-digit password is cleared. "P CLR" appears on the display. The message will appear if the disc tray is closed. It will be on the display until you try another feature.

- 3 Enter a new code as shown above to the left (Rating).

## Operation with DVD and Video CD

### Playing a DVD and Video CD

#### Playback Setup

- Turn on the TV and select the video input source connected to the DVD player.
- Audio system: Turn on the audio system and select the input source connected to the DVD player.

**1** Press OPEN/CLOSE to open the disc tray.

**2** Load your chosen disc in the tray, with the label facing up.


When a double-sided DVD is inserted, make sure the side you want to play is facing up.

**3** Press OPEN/CLOSE to close the tray. READING appears on the TV screen, and playback starts automatically. If playback does not start, press PLAY.


In some cases, the disc menu might appear instead.

#### If a menu screen is displayed

The menu screen may be displayed first after loading a DVD or Video CD which contains a menu.

 Use the ◀ ▶ ▲ ▼ buttons to select the title/chapter you want to view, then press SELECT/ENTER to start playback.

Press TITLE or MENU to return to the menu screen.

 Use the number buttons to select the track you want to view.

Press RETURN to return to the menu screen.

- Menu setting and the exact operating procedures for using the menu may differ depending on the disc. Follow the instructions on the each menu screen. You also may set PBC to Off under setup. See page 13.

#### Notes

- If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see “Parental Control”, on page 14).
- DVDs may have a region code.
- Your player will not play discs that have a region code different from your player. The region code for this player is 2 (two).

### General Features

#### Note

Unless stated otherwise, all operations described use the remote control. Some features may also be available on the Setup menu.

#### Moving to another TITLE



When a disc has more than one title, you can move to another title as follows:

- Press DISPLAY when playback is stopped, then press the appropriate numbered button (0-9) to select a title number.

#### Moving to another CHAPTER/TRACK



When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:

- Press SKIP/SCAN ◀◀ or ▶▶ briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- Press ◀◀ twice briefly to step back to the previous chapter/track.
- To go directly to any chapter during DVD playback, press DISPLAY. Then, press ▲/▼ to select C (chapter) (or for a Video CD, select T for track). Then, enter the chapter/track number using the numbered buttons (0-9).

#### Note

For two-digit numbers, press the buttons in rapid succession.

#### Slow Motion

- 1 Press SLOW ◀◀ or ▶▶ during playback. The player will enter SLOW mode.
- 2 Use the SLOW ◀◀ or ▶▶ to select the required speed: ◀◀ 1/16, ◀◀ 1/8, ◀◀ 1/4 or ◀◀ 1/2 (backward), or ▶▶ 1/16, ▶▶ 1/8, ▶▶ 1/4 or ▶▶ 1/2 (forward).
- 3 To exit slow motion mode, press PLAY.

#### Note

Slow motion playback in reverse is not applicable for Video CD.

## Operation with DVD and Video CD

### General Features (continued)

#### Still Picture and Frame-by-frame playback

- 1 Press PAUSE/STEP during playback.  
The player will now go into PAUSE mode.
- 2 You can advance the picture frame-by-frame by pressing PAUSE/STEP repeatedly on the remote control.

#### Search

- 1 Press and hold SKIP/SCAN or for about two seconds during playback.  
The player will now go into SEARCH mode.
- 2 Press and hold SKIP/SCAN or repeatedly to select the required speed: X2, X4, X16, X100 (backward) or X2, X4, X16, X100 (forward).  
With a Video CD, the Search speed changes: X2, X4, X8 (backward) or X2, X4, X8 (forward).
- 3 To exit SEARCH mode, press PLAY.

#### Random

- 1 Press RANDOM during playback or in stop mode.  
The unit automatically begins Random Playback and "RAND." appears on the display window.
- 2 To return to normal playback, press RANDOM until "RAND." disappears on the display window.

#### Tips

By pressing SKIP/SCAN or during Random playback, the unit selects another title (track) and resumes Random playback.

#### Note

This function only works with DVD Karaoke discs and video CD without PBC.

#### Repeat



##### DVD Video Discs - Repeat Chapter/Title/Off

- 1 To repeat the currently playing chapter, press REPEAT.  
The Repeat Chapter icon appears on the TV screen.
- 2 To repeat the title currently playing, press REPEAT a second time.  
The Repeat Title icon appears on the TV screen.
- 3 To exit Repeat mode, press REPEAT a third time.  
The Repeat Off icon appears on the TV screen.

##### Video CDs - Repeat Track/All/Off

- 1 To repeat the track currently playing, press REPEAT.  
The Repeat Track icon appears on the TV screen.
- 2 To repeat the disc currently playing, press REPEAT a second time.  
The Repeat All icon appears on the TV screen.
- 3 To exit Repeat mode, press REPEAT a third time.  
The Repeat Off icon appears on the TV screen.

#### Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Repeat function. See page 13.

#### Repeat A-B



To repeat a sequence in a title:

- 1 Press A-B at your chosen starting point.  
A- appears briefly on the TV screen.
- 2 Press A-B again at your chosen end point.  
A-B appears briefly on the TV screen, and the repeat sequence begins (a-b repeat appears on the player's display).
- 3 To cancel the sequence, press A-B.

#### Time Search



The Time Search function allows you to start playing at any chosen time on the disc.

- 1 Press DISPLAY during playback. The on-screen display appears on the screen.  
The Time Search box shows the elapsed playing time of the current disc.
- 2 Within 10 seconds, press / to select the Time Search icon in the on-screen display.  
The ":-:--" appears in the Time Search box.
- 3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box.  
If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers.
- 4 Within 10 seconds, press SELECT/ENTER to confirm the start time.  
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

#### 3D Surround



This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

- 1 Press SOUND to select "3D SUR" during playback.
- 2 To turn off the 3D Surround effect, press SOUND again to select "NORM".



## Operation with DVD and Video CD

### General Features (continued)

#### Zoom

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

- 1 Press ZOOM during playback or still playback to activate the Zoom function.  
If you press ZOOM repeatedly, the magnification level increases up to six times.
- 2 Use the ◀▶▲▼ buttons to move through the zoomed picture.
- 3 Press CLEAR to resume normal playback or return to the paused image.

#### Note

- The zoom function may not work for some DVDs.
- The zoom function may not work on multi-angle scenes.

#### Marker Search



You can start playback from a memorized point. Up to nine points can be memorized.

To enter a mark, follow these steps.

- 1 During disc playback, press MARKER when playback reaches the spot that you want to memorize.  
The Marker icon will appear on the TV screen briefly.
- 2 Repeat step 1 to enter up to nine Marker points on a disc.

#### To Recall a Marked Scene

- 1 During disc playback, press SEARCH.  
The MARKER SEARCH menu will appear on the screen.
- 2 Within 10 seconds, press ◀▶ to select a Marker number that you want to recall.
- 3 Press SELECT/ENTER.  
Playback will start from the Marked scene.
- 4 To remove the MARKER SEARCH menu, press SEARCH.

#### To clear a Marked Scene

- 1 During disc playback, press SEARCH.  
The MARKER SEARCH menu will appear on the screen.
- 2 Press ◀▶ to select the Marker number that you want to erase.
- 3 Press CLEAR.  
The Marker number will be erased from the list.
- 4 Repeat steps 2 and 3 to erase additional Marker numbers.
- 5 To remove the MARKER SEARCH menu, press SEARCH.

### Special DVD Features

#### Checking the contents of DVD Video discs: Menus

DVDs may contain menus that allow you to access special features. To use the disc menu, press MENU. Then, press the appropriate number button to select an option. Or, use the ◀▶/▲▼ buttons to highlight your selection, then press SELECT/ENTER.

#### Title Menu

- 1 Press TITLE.  
If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.
- 2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.
- 3 To remove the title menu, press TITLE again.

#### Disc Menu

- 1 Press MENU.  
The disc menu is displayed.
- 2 To remove the disc menu, press MENU again.

#### Camera Angle



If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

- Press ANGLE repeatedly during playback to select a desired angle.  
The number of the current angle appears on the display.

#### Changing the Audio Language



Press AUDIO repeatedly during playback to hear a different audio language or audio track.

#### Subtitles



Press SUBTITLE repeatedly during playback to see the different subtitle languages.

#### Note

If ⊗ appears, the feature is not available on the disc.

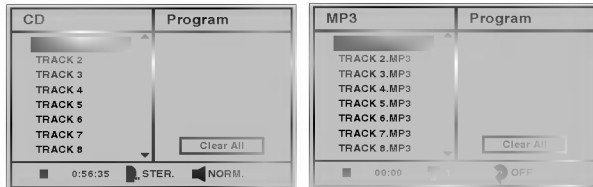
## Operation with Audio CD and MP3 Discs

### Playing an Audio CD and MP3 discs

The DVD Player can play MP3 formatted recordings on CD-ROM, CD-R, or CD-RW discs.

Before playing MP3 recordings, read the notes on MP3 Recordings on page 21.

- 1 Insert a disc and close the tray.**  
The menu appears on the TV screen.



Audio CD menu

MP3 menu

- 2 Press ▲▼ to select a track then press PLAY.**  
Playback starts.  
During playback, the current track's elapsed playing time will appear on the display.  
Playback will stop at the end of the disc.

- 3 To stop playback at any other time, press STOP.**

### Pause

- 1 Press PAUSE/STEP during playback.
- 2 To return to playback, press PLAY or press PAUSE/STEP again.

### Moving to another Track

- Press SKIP/SCAN ◀◀ or ▶▶ briefly during playback to go to the next track or to return to the beginning of the current track.
- Press SKIP/SCAN ◀◀ twice briefly to step back to the previous track.
- In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

### Repeat Track/All/Off

- 1 To repeat the track currently playing, press REPEAT.  
The Repeat Track icon appears on the menu screen.
- 2 To repeat all tracks on a disc, press REPEAT a second time.  
The Repeat All icon appears on the menu screen.
- 3 To cancel Repeat mode, press REPEAT a third time.  
The Repeat Off icon appears on the menu screen.

### Search

- 1 Press and hold SKIP/SCAN ◀◀ or ▶▶ for about two seconds during playback.  
The player will now go into SEARCH mode.
- 2 Press and hold SKIP/SCAN ◀◀ or ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward).
- 3 Search speed and direction are indicated on the menu screen.
- 4 To exit SEARCH mode, press PLAY.

### Random

- 1 Press RANDOM during playback or when playback is stopped.  
The unit automatically begins Random Playback and RANDOM or "RAND." appears on the display window and menu screen.
- 2 To return to normal playback, press RANDOM repeatedly until RANDOM or "RAND." disappears on the display window and menu screen.

### Repeat A-B

To repeat a sequence.

- 1 During disc playback, press A-B at your chosen starting point.  
The Repeat icon and "A-" appears on the menu screen.
- 2 Press A-B again at your chosen end point.  
The Repeat icon and "A B" appears on the menu screen, and the sequence begins to play repeatedly.
- 3 To exit the sequence and return to normal play, press A-B again.  
The Repeat icon and "OFF" appear on the menu screen.

### 3D Surround

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

- 1 Press SOUND to select "3D SUR" during playback.
- 2 To turn off the 3D Surround effect, press SOUND again to select "NORM".

### Changing the Audio Channel

Press AUDIO repeatedly during playback to hear a different audio channel (STEREO, LEFT, or RIGHT).

## Programmed Playback

### Programmed Playback with Audio CD and MP3 Discs

Program allows you to store your favorite tracks for a particular disc in the player memory.

Program can contain 32 tracks (Audio CD) or 60 tracks (MP3 disc).

**1** Insert the disc and close the tray.  
The menu is displayed on the TV screen.

**2** Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.

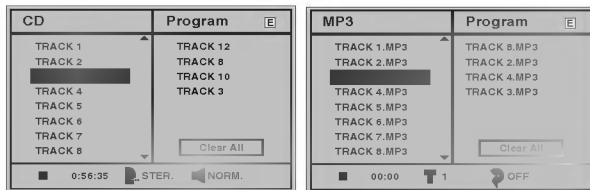
The [E] mark will appear to the right of the word Program on the right side of the menu screen.

#### Note

Press PROGRAM to exit the Program Edit mode; the [E] mark will disappear.

**3** Press ▲/▼ to select a track, then press SELECT/ENTER to place the selected track on the Program list.

**4** Repeat step 3 to place additional tracks on the Program list.



Audio CD menu

MP3 menu

**5** Press ►.  
The programmed track you selected last is highlighted on the program list.

**6** Press ▲/▼ to select the track you want to start playing.

Press TITLE to move to the next page.  
Press MENU to move to the previous page.

**7** Press PLAY to start.

Playback begins in the order in which you programmed the tracks and "PROG." appears on the menu screen. Playback stops after all of the tracks on the Program list have played once.

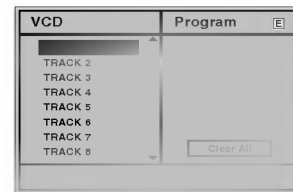
### Programmed Playback with Video CD

#### Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Program function. See page 13.

**1** Insert Video CD and close the tray.

**2** Press PROGRAM while playback is stopped.  
The VCD Program menu will appear.



#### Note

Press RETURN or PROGRAM to exit the Program menu.

**3** Follow steps 3-7 of "Programmed Playback with Audio CD and MP3 Disc" on left.

### Repeat Programmed Tracks

- To repeat the track currently playing, press REPEAT. The Repeat Track icon appears on the menu screen.
- To repeat all tracks on the program list, press REPEAT a second time. The Repeat All icon appears on the menu screen.
- To cancel Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the menu screen.

### Erasing a Track from Program List

- 1 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.  
The [E] mark will appear.
- 2 Press ► to move to the Program list.
- 3 Use ▲/▼ to select the track that you wish to erase from the Program list.
- 4 Press CLEAR.  
The track will be erased from the Program list.

### Erasing the Complete Program List

- 1 Follow steps 1-2 of "Erasing a Track from Program List" as above.
- 2 Use ▲/▼ to select "Clear All", then press SELECT/ENTER.  
The complete Program for the disc will be erased.  
The programs are also cleared when the disc is removed.

### To resume normal playback from programmed playback

Press and hold PROGRAM for 3 seconds until "PROG." indicator disappears in the display window.

## Additional Information

### Last Condition Memory

This player memorizes the last condition for the last disc you have watched. Settings remain in memory even if you remove the disc from the player or switch off the player. If you load a disc that has its settings memorized, the latest stop position is automatically recalled.

#### Notes

- Settings are stored in memory for use any time.
- This player does not memorize settings of a disc if you switch off the player before commencing to play it.

### Screen Saver

The screen saver picture appears when you leave the DVD Player in stop mode for about five minutes. After the Screen Saver has been engaged for about five minutes, the DVD Player will automatically turn itself off.

### Video Mode Setting

- With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In this case, the picture quality may be improved by changing the video mode.
- To change the video mode, press and hold DISPLAY about 3 seconds during disc playback. The new video mode number selected is displayed on the TV screen. Check whether the video quality has improved. If not, repeat the above procedure until picture quality is improved.
- Video mode change sequence:  
MODE1 → MODE2 → MODE3 → MODE4 →  
MODE5 → MODE1
- If you turn off the power, the video mode will be back to initial state (MODE1).

### Controlling the TV

Your remote control is capable of operating your DVD player as well as limited functions of LG TV. Follow the instructions below to operate for your LG TV.

**1** Before using the remote control, press the **DVD** or **TV** button to select the device to be operated. To switch the remote control mode (to operate a different device), be sure to press the **DVD** or **TV** button first.

**2** The **POWER**, **CH(▼/▲)**, **VOL (◀/▶)**, **MUTE** and **TV AV** buttons on remote control are used to operate the LG TV.

#### Setting Remote Control Codes for LG TV

- This remote control supports two remote control codes for LG TV: Code 1 and Code 2. Code 1 is for LG TV with NTSC or multi system. Code 2 is for LG TV with PAL system.
- When the unit is shipped from the factory, the remote control is set to Code 1.
- To set the remote control to Code 2, hold down both the TV button and "2" number button on the remote control. (If the batteries in the remote control are replaced while the remote control is set to Code 2, the setting will revert Code 1.)
- To set the remote control back to Code 1, hold down both the TV button and "1" number button on the remote control.

#### Note

If the remote control does not operate your particular TV, try one of the other code or use the remote control originally supplied with the LG TV. Due to the variety of codes used by manufacturer, OUR COMPANY cannot guarantee that the remote control will operate every model of the LG TV.

## Additional Information(Continued)

### Notes on MP3 Discs

#### About MP3

- An MP3 file is audio data compressed by using MPEG1, the audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files".
- The player can not read an MP3 file that has a file extension other than ".mp3".
- The player can not read a fake MP3 file that has a file extension ".mp3".

#### MP3 Disc compatibility with this player is limited as follows:

1. Sampling Frequency / only at 44.1kHz
2. Bit rate/ within 32 - 320kbps
3. CD-R physical format should be "ISO 9660"
4. If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We therefore recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
5. A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one.
6. We do not recommend using CD-RW discs. Please use finished CD-R discs only.
7. File names should be named using 8 letters or less and must incorporate the ".mp3" extension e.g. "\*\*\*\*\*.MP3".
8. Do not use special characters such as "\_?!><+\*}{[ @ ] ; , . , " etc.
9. Total number of files on the disc should be less than 200.
10. Use 74 minute CD-R discs (650M), do not use 80 minute CD-R (700M) software.

This DVD player requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files).

**Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.**

## Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

| Symptom  | Cause   | Correction   |
|--|---|--|
| No power.  | <ul style="list-style-type: none"> <li>The power cord is disconnected.</li> </ul>   | <ul style="list-style-type: none"> <li>Plug the power cord into the wall outlet securely.</li> </ul>   |
| The power is on, but the DVD player does not work. | <ul style="list-style-type: none"> <li>No disc is inserted.</li> </ul>  | <ul style="list-style-type: none"> <li>Insert a disc. (Check that the DVD or, audio CD indicator in the display window is lit.)</li> </ul>                       |
| No picture.  | <ul style="list-style-type: none"> <li>The TV is not set to receive DVD signal output.</li> </ul>                                       | <ul style="list-style-type: none"> <li>Select the appropriate video input mode on the TV so the picture from the DVD player appears on the TV screen.</li> </ul> |
|  | <ul style="list-style-type: none"> <li>The video cable is not connected securely.</li> </ul>  | <ul style="list-style-type: none"> <li>Connect the video cable securely.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The connected TV power is turned off.</li> </ul>   | <ul style="list-style-type: none"> <li>Turn on the TV.</li> </ul>  |
| No sound.  | <ul style="list-style-type: none"> <li>The equipment connected with the audio cable is not set to receive DVD signal output.</li> </ul> | <ul style="list-style-type: none"> <li>Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player.</li> </ul>        |
|  | <ul style="list-style-type: none"> <li>The audio cables are not connected securely.</li> </ul>  | <ul style="list-style-type: none"> <li>Connect the audio cable securely.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The power of the equipment connected with the audio cable is turned off.</li> </ul>              | <ul style="list-style-type: none"> <li>Turn on the equipment connected with the audio cable.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The Digital Audio Output is set to the wrong position.</li> </ul>                                | <ul style="list-style-type: none"> <li>Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing POWER.</li> </ul>     |
| The playback picture is poor.                      | <ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>  | <ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>  |
| The DVD player does not start playback.            | <ul style="list-style-type: none"> <li>No disc is inserted.</li> </ul>  | <ul style="list-style-type: none"> <li>Insert a disc. (Check that the DVD, or audio CD indicator in the DVD display is lit.)</li> </ul>                          |
|  | <ul style="list-style-type: none"> <li>An unplayable disc is inserted.</li> </ul>   | <ul style="list-style-type: none"> <li>Insert a playable disc. (Check the disc type, color system, and Regional code.)</li> </ul>                                |
|  | <ul style="list-style-type: none"> <li>The disc is placed upside down.</li> </ul>   | <ul style="list-style-type: none"> <li>Place the disc with the playback side down.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The disc is not placed within the guide.</li> </ul>  | <ul style="list-style-type: none"> <li>Place the disc on the disc tray correctly inside the guide.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The disc is dirty.</li> </ul>  | <ul style="list-style-type: none"> <li>Clean the disc.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The Rating level is set.</li> </ul>  | <ul style="list-style-type: none"> <li>Cancel the Rating function or change the rating level.</li> </ul>   |
| The remote control does not work properly.         | <ul style="list-style-type: none"> <li>The remote control is not pointed at the remote sensor of the DVD player.</li> </ul>             | <ul style="list-style-type: none"> <li>Point the remote control at the remote sensor of the DVD player.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>The remote control is too far from the DVD player.</li> </ul>                                    | <ul style="list-style-type: none"> <li>Operate the remote control within 23 ft (7 m).</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>There is an obstacle in the path of the remote control and the DVD player.</li> </ul>            | <ul style="list-style-type: none"> <li>Remove the obstacle.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>The batteries in the remote control are exhausted.</li> </ul>                                    | <ul style="list-style-type: none"> <li>Replace the batteries with new ones.</li> </ul>   |

## Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See page 12).

| Code | Language        | Code | Language         | Code | Language       | Code | Language   |
|------|-----------------|------|------------------|------|----------------|------|------------|
| 6566 | Abkhazian       | 7074 | Fiji             | 7678 | Lingala        | 8373 | Singhalese |
| 6565 | Afar            | 7073 | Finnish          | 7684 | Lithuanian     | 8375 | Slovak     |
| 6570 | Afrikaans       | 7082 | French           | 7775 | Macedonian     | 8376 | Slovenian  |
| 8381 | Albanian        | 7089 | Frisian          | 7771 | Malagasy       | 8379 | Somali     |
| 6577 | Ameharic        | 7176 | Galician         | 7783 | Malay          | 6983 | Spanish    |
| 6582 | Arabic          | 7565 | Georgian         | 7776 | Malayalam      | 8385 | Sudanese   |
| 7289 | Armenian        | 6869 | German           | 7784 | Maltese        | 8387 | Swahili    |
| 6583 | Assamese        | 6976 | Greek            | 7773 | Maori          | 8386 | Swedish    |
| 6588 | Aymara          | 7576 | Greenlandic      | 7782 | Marathi        | 8476 | Tagalog    |
| 6590 | Azerbaijani     | 7178 | Guarani          | 7779 | Moldavian      | 8471 | Tajik      |
| 6665 | Bashkir         | 7185 | Gujarati         | 7778 | Mongolian      | 8465 | Tamil      |
| 6985 | Basque          | 7265 | Hausa            | 7865 | Nauru          | 8484 | Tatar      |
| 6678 | Bengali; Bangla | 7387 | Hebrew           | 7869 | Nepali         | 8469 | Telugu     |
| 6890 | Bhutani         | 7273 | Hindi            | 7879 | Norwegian      | 8472 | Thai       |
| 6672 | Bihari          | 7285 | Hungarian        | 7982 | Oriya          | 6679 | Tibetan    |
| 6682 | Breton          | 7383 | Icelandic        | 8065 | Panjabi        | 8473 | Tigrinya   |
| 6671 | Bulgarian       | 7378 | Indonesian       | 8083 | Pashto, Pushto | 8479 | Tonga      |
| 7789 | Burmese         | 7365 | Interlingua      | 7065 | Persian        | 8482 | Turkish    |
| 6669 | Byelorussian    | 7165 | Irish            | 8076 | Polish         | 8475 | Turkmen    |
| 7577 | Cambodian       | 7384 | Italian          | 8084 | Portuguese     | 8487 | Twi        |
| 6765 | Catalan         | 7465 | Japanese         | 8185 | Quechua        | 8575 | Ukrainian  |
| 9072 | Chinese         | 7487 | Javanese         | 8277 | Rhaeto-Romance | 8582 | Urdu       |
| 6779 | Corsican        | 7578 | Kannada          | 8279 | Rumanian       | 8590 | Uzbek      |
| 7282 | Croatian        | 7583 | Kashmiri         | 8285 | Russian        | 8673 | Vietnamese |
| 6783 | Czech           | 7575 | Kazakh           | 8377 | Samoan         | 8679 | Volapük    |
| 6865 | Danish          | 7589 | Kirghiz          | 8365 | Sanskrit       | 6789 | Welsh      |
| 7876 | Dutch           | 7579 | Korean           | 7168 | Scots Gaelic   | 8779 | Wolof      |
| 6978 | English         | 7585 | Kurdish          | 8382 | Serbian        | 8872 | Xhosa      |
| 6979 | Esperanto       | 7679 | Laothian         | 8372 | Serbo-Croatian | 7473 | Yiddish    |
| 6984 | Estonian        | 7665 | Latin            | 8378 | Shona          | 8979 | Yoruba     |
| 7079 | Faroese         | 7686 | Latvian, Lettish | 8368 | Sindhi         | 9085 | Zulu       |

## Country Code List

Enter the appropriate code number for the initial setting "Country Code" (See page 14).

| Code | Country                  | Code | Country                        | Code | Country                   | Code | Country                        |
|------|--------------------------|------|--------------------------------|------|---------------------------|------|--------------------------------|
| AD   | Andorra                  | ER   | Eritrea                        | LC   | Saint Lucia               | SC   | Seychelles                     |
| AE   | United Arab Emirates     | ES   | Spain                          | LI   | Liechtenstein             | SD   | Sudan                          |
| AF   | Afghanistan              | ET   | Ethiopia                       | LK   | Sri Lanka                 | SE   | Sweden                         |
| AG   | Antigua and Barbuda      | FI   | Finland                        | LR   | Liberia                   | SG   | Singapore                      |
| AI   | Anguilla                 | FJ   | Fiji                           | LS   | Lesotho                   | SH   | Saint Helena                   |
| AL   | Albania                  | FK   | Falkland Islands               | LT   | Lithuania                 | SI   | Slovenia                       |
| AM   | Armenia                  | FM   | Micronesia                     | LU   | Luxembourg                | SJ   | Svalbard and Jan Mayen Islands |
| AN   | Netherlands Antilles     | FO   | Faroe Islands                  | LV   | Latvia                    | SK   | Slovak Republic                |
| AO   | Angola                   | FR   | France                         | LY   | Libya                     | SL   | Sierra Leone                   |
| AQ   | Antarctica               | FX   | France (European Territory)    | MA   | Morocco                   | SM   | San Marino                     |
| AR   | Argentina                | GA   | Gabon                          | MC   | Monaco                    | SN   | Senegal                        |
| AS   | American Samoa           | GB   | Great Britain                  | MD   | Moldavia                  | SO   | Somalia                        |
| AT   | Austria                  | GD   | Grenada                        | MG   | Madagascar                | SR   | Suriname                       |
| AU   | Australia                | GE   | Georgia                        | MH   | Marshall Islands          | ST   | Saint Tome and Principe        |
| AW   | Aruba                    | GF   | French Guyana                  | MK   | Macedonia                 | SU   | Former USSR                    |
| AZ   | Azerbaijan               | GH   | Ghana                          | ML   | Mali                      | SV   | El Salvador                    |
| BA   | Bosnia-Herzegovina       | GI   | Gibraltar                      | MM   | Myanmar                   | SY   | Syria                          |
| BB   | Barbados                 | GL   | Greenland                      | MN   | Mongolia                  | SZ   | Swaziland                      |
| BD   | Bangladesh               | GM   | Gambia                         | MO   | Macau                     | TC   | Turks and Caicos Islands       |
| BE   | Belgium                  | GN   | Guinea                         | MP   | Northern Mariana Islands  | TD   | Chad                           |
| BF   | Burkina Faso             | GP   | Guadeloupe (French)            | MQ   | Martinique (French)       | TF   | French Southern Territories    |
| BG   | Bulgaria                 | GQ   | Equatorial Guinea              | MR   | Mauritania                | TG   | Togo                           |
| BH   | Bahrain                  | GR   | Greece                         | MS   | Montserrat                | TH   | Thailand                       |
| BI   | Burundi                  | GS   | S. Georgia & S. Sandwich Isls. | MT   | Malta                     | TJ   | Tadjikistan                    |
| BJ   | Benin                    | GT   | Guatemala                      | MU   | Mauritius                 | TK   | Tokelau                        |
| BM   | Bermuda                  | GU   | Guam (USA)                     | MV   | Maldives                  | TM   | Turkmenistan                   |
| BN   | Brunei Darussalam        | GW   | Guinea Bissau                  | MX   | Mexico                    | TN   | Tunisia                        |
| BO   | Bolivia                  | GY   | Guyana                         | MY   | Malaysia                  | TO   | Tonga                          |
| BR   | Brazil                   | HK   | Hong Kong                      | MZ   | Mozambique                | TP   | East Timor                     |
| BS   | Bahamas                  | HM   | Heard and McDonald Islands     | NA   | Namibia                   | TR   | Turkey                         |
| BT   | Bhutan                   | HN   | Honduras                       | NC   | New Caledonia (French)    | TT   | Trinidad and Tobago            |
| BV   | Bouvet Island            | HR   | Croatia                        | NE   | Niger                     | TV   | Tuvalu                         |
| BW   | Botswana                 | HT   | Haiti                          | NF   | Norfolk Island            | TW   | Taiwan                         |
| BY   | Belarus                  | HU   | Hungary                        | NG   | Nigeria                   | TZ   | Tanzania                       |
| BZ   | Belize                   | ID   | Indonesia                      | NI   | Nicaragua                 | UA   | Ukraine                        |
| CA   | Canada                   | IE   | Ireland                        | NL   | Netherlands               | UG   | Uganda                         |
| CC   | Cocos (Keeling) Islands  | IL   | Israel                         | NO   | Norway                    | UK   | United Kingdom                 |
| CF   | Central African Republic | IN   | India                          | NP   | Nepal                     | UM   | USA Minor Outlying Islands     |
| CG   | Congo                    | IO   | British Indian Ocean Territory | NR   | Nauru                     | US   | United States                  |
| CH   | Switzerland              | IQ   | Iraq                           | NU   | Niue                      | UY   | Uruguay                        |
| CI   | Ivory Coast              | IR   | Iran                           | NZ   | New Zealand               | UZ   | Uzbekistan                     |
| CK   | Cook Islands             | IS   | Iceland                        | OM   | Oman                      | VA   | Vatican City State             |
| CL   | Chile                    | IT   | Italy                          | PA   | Panama                    | VC   | Saint Vincent & Grenadines     |
| CM   | Cameroon                 | JM   | Jamaica                        | PE   | Peru                      | VE   | Venezuela                      |
| CN   | China                    | JO   | Jordan                         | PF   | Polynesia (French)        | VG   | Virgin Islands (British)       |
| CO   | Colombia                 | JP   | Japan                          | PG   | Papua New Guinea          | VI   | Virgin Islands (USA)           |
| CR   | Costa Rica               | KE   | Kenya                          | PH   | Philippines               | VN   | Vietnam                        |
| CS   | Former Czechoslovakia    | KG   | Kyrgyzstan                     | PK   | Pakistan                  | VU   | Vanuatu                        |
| CU   | Cuba                     | KH   | Cambodia                       | PL   | Poland                    | WF   | Wallis and Futuna Islands      |
| CV   | Cape Verde               | KI   | Kiribati                       | PM   | Saint Pierre and Miquelon | WS   | Samoa                          |
| CX   | Christmas Island         | KM   | Comoros                        | PN   | Pitcairn Island           | YE   | Yemen                          |
| CY   | Cyprus                   | KN   | Saint Kitts & Nevis Anguilla   | PR   | Puerto Rico               | YT   | Mayotte                        |
| CZ   | Czech Republic           | KP   | North Korea                    | PT   | Portugal                  | YU   | Yugoslavia                     |
| DE   | Germany                  | KR   | South Korea                    | PW   | Palau                     | ZA   | South Africa                   |
| DJ   | Djibouti                 | KW   | Kuwait                         | PY   | Paraguay                  | ZM   | Zambia                         |
| DK   | Denmark                  | KY   | Cayman Islands                 | QA   | Qatar                     | ZR   | Zaire                          |
| DM   | Dominica                 | KZ   | Kazakhstan                     | RE   | Reunion (French)          | ZW   | Zimbabwe                       |
| DO   | Dominican Republic       | LA   | Laos                           | RO   | Romania                   |      |                                |
| DZ   | Algeria                  | LB   | Lebanon                        | RU   | Russian Federation        |      |                                |
| EC   | Ecuador                  |      |                                | RW   | Rwanda                    |      |                                |
| EE   | Estonia                  |      |                                | SA   | Saudi Arabia              |      |                                |
| EG   | Egypt                    |      |                                | SB   | Solomon Islands           |      |                                |
| EH   | Western Sahara           |      |                                |      |                           |      |                                |





## Specifications

### General

|                       |                               |
|-----------------------|-------------------------------|
| Power requirements    | AC 110-240V , 50/60 Hz        |
| Power consumption     | 14W                           |
| Dimensions (approx.)  | 360 X 67 X 248 mm (w x h x d) |
| Mass (approx.)        | 2.5 kg                        |
| Operating temperature | 5°C to 40°C (41°F to 104°F)   |
| Operating humidity    | 5 % to 90 %                   |

### System

|                       |  |
|-----------------------|--|
| Laser                 | Semiconductor laser, wavelength 650 nm   |
| Signal system         | PAL/NTSC   |
| Frequency response    | DVD (PCM 96 kHz): 8 Hz to 44 kHz<br>DVD (PCM 48 kHz): 8 Hz to 22 kHz<br>CD: 8 Hz to 20 kHz |
| Signal-to-noise ratio | More than 100dB (ANALOG OUT connectors only)   |
| Harmonic distortion   | Less than 0.008%   |
| Dynamic range         | More than 100 dB (DVD)<br>More than 95 dB (CD)   |

### Outputs

|                              |   |
|------------------------------|---|
| VIDEO OUT                    | 1 Vp-p 75 $\Omega$ , sync negative, RCA jack x 1 / SCART (TO TV)                                |
| S-VIDEO OUT                  | (Y) 1.0 V (p-p), 75 $\Omega$ , negative sync, Mini DIN 4-pin x 1<br>(C) 0.3 V (p-p) 75 $\Omega$ |
| Audio output (digital audio) | 0.5 V (p-p), 75 $\Omega$ , RCA jack x 1   |
| Audio output (analog audio)  | 2.0 Vrms (1 KHz, 0 dB), 330 $\Omega$ , RCA jack (L, R) x 1 / SCART (TO TV)                      |

### Accessory

|                      |    |
|----------------------|----|
| Video cable .....    | .1 |
| Audio cable .....    | .1 |
| Remote control ..... | .1 |
| Batteries .....      | .2 |

- Design and specifications are subject to change without notice.

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