

SAMPO

DVD Player

User Manual



<http://www.sampo.com.tw>

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WARNING:

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



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns the user of uninsulated voltage within the unit that can cause dangerous electric shocks.



This symbol alerts the user that there are important operating and maintenance instructions in the literature accompanying this unit.

CAUTION

THIS DVD VIDEO PLAYER IS A CLASS 1 LASER PRODUCT. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC NOTE:

This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: 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.

IMPORTANT SAFETY INSTRUCTION

READ THE SAFETY AND OPERATING INSTRUCTION before operating your DVD player

FOLLOW INSTRUCTIONS AND HEED ALL WARNINGS on your DVD player in this manual.

1. Save these instructions for later use
2. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
3. Do not use this DVD player near water
4. Do not place this DVD player on an unstable cart, stand or table. The DVD Player may fall, causing serious damage to the DVD player.
5. Slots and openings in the cabinet and the back or bottom are provided for ventilation . To ensure reliable operation of the DVD player and to protect it from overheating, those openings must not be blocked or covered. The openings should never be blocked by placing the DVD player on a bed, sofa, rug, or other similar surface. This DVD player should never be placed near or over a radiator or heat register. This DVD player should not be placed in a built-in installation unless proper ventilation is provided.
6. This DVD player should be operated from the type of power source indicated on the marketing label you are not sure of the type of power available, consult your dealer or local service.
7. This DVD player is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the grounding-type plug.
8. Do not allow anything to rest on the power cord. Do not locate this DVD player where persons will walk on the cord.
9. If an extension cord is used with this DVD player, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating.
10. Never push objects of any kind into this DVD player through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the DVD player.
11. Do not attempt to service this DVD player yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to service personnel.
12. An appliance and cart combination should be moved with care. Quick stop, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
13. Unplug this DVD player during lightning storms or unused for long periods of time.
14. Unplug this DVD player from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed
 - B. If liquid has been spilled into the DVD player
 - C. If the DVD player has been exposed to rain or water
 - D. If the product has been dropped or the cabinet has been damaged
 - E. If the product exhibits a distinct change in performance, indicating a need for service

FEATURES

Compatible with Video CD, CD, Super VCD, and CVD as well as DVD-video

This DVD player can playback not only the Video CD, CD, and DVD-video but also the super VCD and CVD, which are popular in China. In addition, it also can playback the MP3 audio recorded in CD-ROM.

Compatible with NTSC-video Disc and PAL-video disc

This unit can playback NTSC and PAL discs and converts the video format to match its video output. For example, when the video output is set to PAL and a NTSC disc is played back, the unit will convert NTSC video to PAL video to output terminal.

Multiple video output formats including NTSC, PAL, or AUTO (Factory setting)

When NTSC or PAL is set for video output format, the other video will be converted to NTSC or PAL, respectively. When AUTO is set, the output video format will be the same as the video on the disc. This is just suitable for multiple-format TV set.

High quality audio

- └ Built-in decoder for Dolby Digital (AC-3), MPEGII audio/Linear PCM up to 96KHz/24bit.
- └ Bypassed DTS digital audio.

Many convenient features

- └ In-time OSD message is always displayed for the disc information and operation status.
- └ Multiple-speed fast forward/reverse scan -- 2X, 4X, 8X, 12X, 15X, 30X.
- └ Multiple-speed slow-motion forward/reverse scan – 1/2X, 1/4X, 1/8X.
- └ Supporting Up to five markers for program memory.
- └ Repeated playback – chapter/track, title/disc, A-B.

Package Contents

Main Unit 1



Remote control unit 1



Batteries (R6 AA) 2



Video and Stereo sound signal lines 1



Instructions manual 1



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Precautions

Please read the followings carefully so that this DVD player can be used correctly and safely.

⌘ **Power supply**

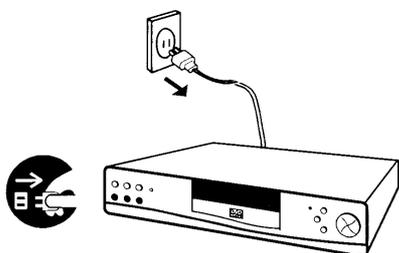
Make sure that the correct power outlet is used (AC100~240V)

⌘ **Power cord**

- ⌋ Do not put any heavy objects on top of the power cord to avoid fires or current leaks caused by the cord damage.



- ⌋ Please unplug the power cord if the unit will not be used for a long time.



⌘ **Location**

- ⌋ Do not place this unit at the following locations :
 - ✓ Prone to be affected by vibrations
 - ✓ With high humidity
 - ✓ With poor ventilation
 - ✓ With direct sunlight
 - ✓ With extremely high or low temperatures
- ⌋ This unit should be placed on a horizontal surface.
- ⌋ Please keep this unit away from television sets, radios, computers and loudspeakers to avoid magnetic field interference

⌘ **Usage and storage**

- ⌋ Do not remove the top cover by yourself to avoid possible electric shock resulting from touching the inside of this unit
- ⌋ Do not place any heavy objects on top of this unit.

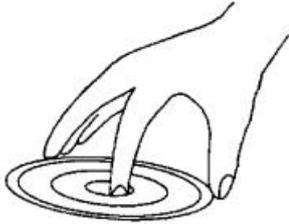
⌘ **Condensation**

Please turn on the power for 1~2 hours before using this unit if condensation happens, which may result from moving the unit from a cold place to a hot one.

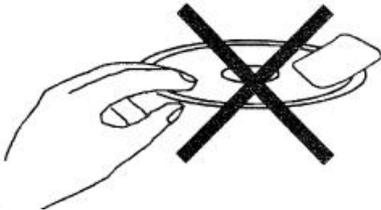


Disc usage

- Please hold all discs by their edges or the center opening as shown below. Do not touch the shiny signal surface of the discs.



- Do not stick labels or tapes on the discs, and do not scratch or damage the discs.



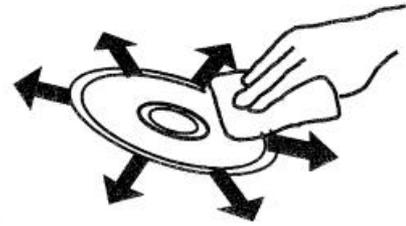
- The unit spins the disc at high speed during playback. Do not use damaged discs such as cracked or warped ones because they could let the unit damaged



Disc cleaning

- Fingerprints or dirt on disc surface can directly influence the signal quality. That is because the laser light being reflected from the disc surface may

be weakened. The poor the signal quality, the poor the playback performance. Therefore, do keep the disc clean by wiping straight out from the center with a dry soft cloth.



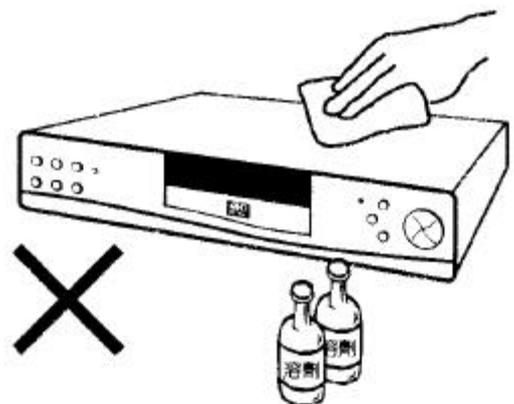
- If the disc is very dirty, apply a moist soft cloth to wipe it first and then clean it with another dry soft cloth.
- Do not use record cleaning sprays, benzene, thinner, anti-static electricity liquids or any other solvent. Those may make the disc surface damaged.

Disc storage

- Please keep the discs in boxes to avoid the discs bent. Do not keep the discs in the locations with high temperature, high humidity, or direct sunshine. Those may cause damage to the discs.
- Please read carefully the instructions on the disc label.

Unit cleaning

Please clean the front panel and the body of the unit by dry soft clothes. The other areas can be cleaned using soft clothes moistened with neutral detergent. Do not clean by the evaporative solutions to avoid possible damage to the unit.



BACKGROUND INFORMATION

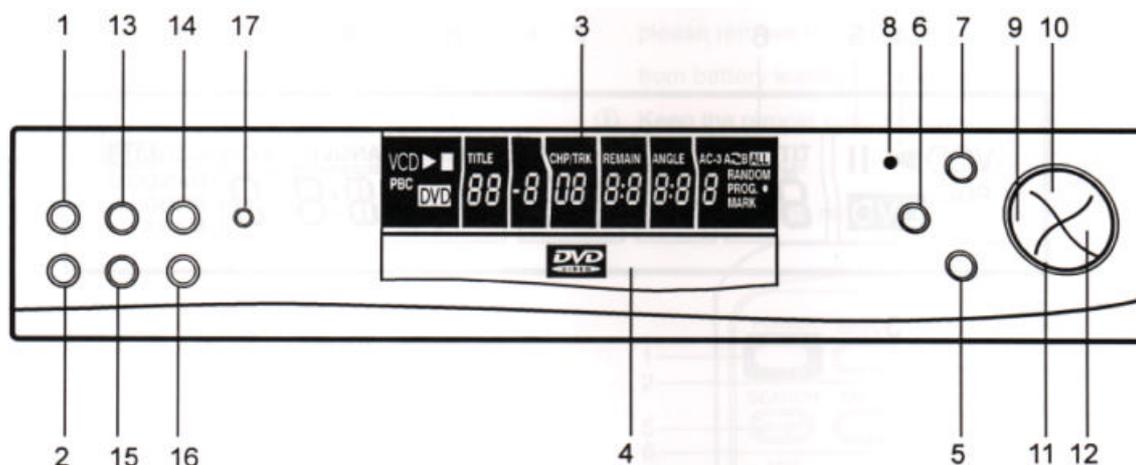
This DVD player can play the following types of discs

Disc type/Logo	Dimension/side/layer	Max. playback time(storage capacity)
DVD Video 	DVD 12 cm/single sided/single layer 12 cm/single sided/double layer 12 cm/double sided/single layer 12 cm/double sided/double layer	MPEG2 TYPE 133 min. (4.7 GB) 242 min. (8.5 GB) 266 min. (9.4 GB) 484 min. (17 GB)
	8 cm/single sided/single layer 8 cm/single sided/double layer 8 cm/double sided/single layer 8 cm/double sided/double layer	41 min. 75 min. 82 min. 150 min.
Video CD 	VCD 12 cm/single sided/single layer	MPEG1 TYPE 74 min.
	8 cm/single sided/single layer	20 min.
CD-DA 	CD-DA 12 cm/single sided/single layer	74 min.
	8 cm/single sided/single layer	20 min.

- DVD and VCD: Discs with both images and sounds, including multiple sounds
- CD-DA: Disks with audio only.
- Please do not insert DVD-ROM, CD-ROM or Photo CD in this DVD player to avoid some playback problems.
- This unit complies with VCD ver. 1.1, ver. 2.0, and ver. 3.0.
- This unit support 128Kbps/44.1KHz MP3 disc that formatted by ISO9660 CD-ROM mode 1 file type.

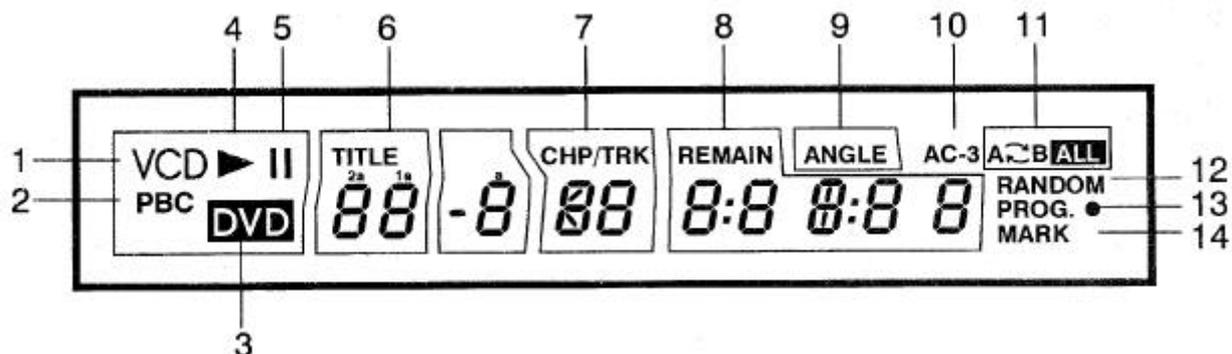
Front panel/Display window

Front panel



1. **Headphone volume level control**
Adjust the volume level of the headphone
2. **Headphone jack**
Connect the headphone
3. **Display window**
Display the operation information
4. **Disc tray**
5. **OPEN/CLOSE button**
Open/close the disc tray
6. **STILL button**
Go into "Step" playback mode
7. **POWER button**
Turn on/off the unit
8. **STANDBY indicator**
Light up in standby mode and go out when the unit is turned on.
9. **PREVIOUS button**
Go to the previous chapter/track during playback DVD/VCD/CD. However, it works as "Go to the previous page" in the PBC menu of VCD disc.
10. **PLAY button**
Play the inserted disc.
11. **STOP button**
Stop playback
12. **NEXT button**
Go to the next chapter/track during playback except it works as "Go to the next page" in the PBC menu of VCD disc.

Display window



1. CD/VCD indicator
2. PBC indicator for VCD disc
3. DVD indicator
4. Operation status indicator - playback
5. Operation status indicator – pause or stop
6. Title number indicator
7. Chapter/track number indicator
8. Elapsed playback time / remaining playback time indicator
9. Multi-angle indicator
10. Dolby AC-3 audio indicator
11. Repeat playback mode indicator
12. Random playback indicator
13. Program playback indicator
14. Marker setting indicator

Remote Control Unit

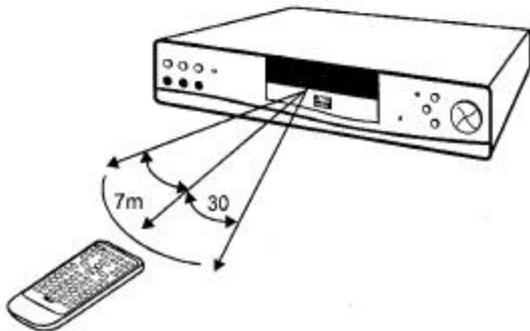
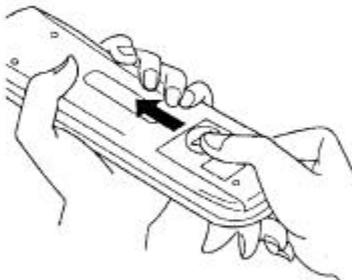
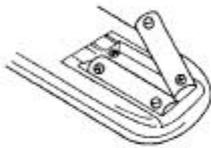
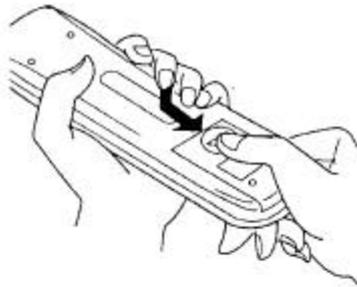
In order to use the remote control unit to operate the DVD player, please insert two R6 batteries (size AA) into the remote control unit. Make sure that the + and – ends of the batteries are matched to the +/- marks inside the battery compartment.

Please point the remote control unit at the remote sensor of the DVD player unit during remote control operation.

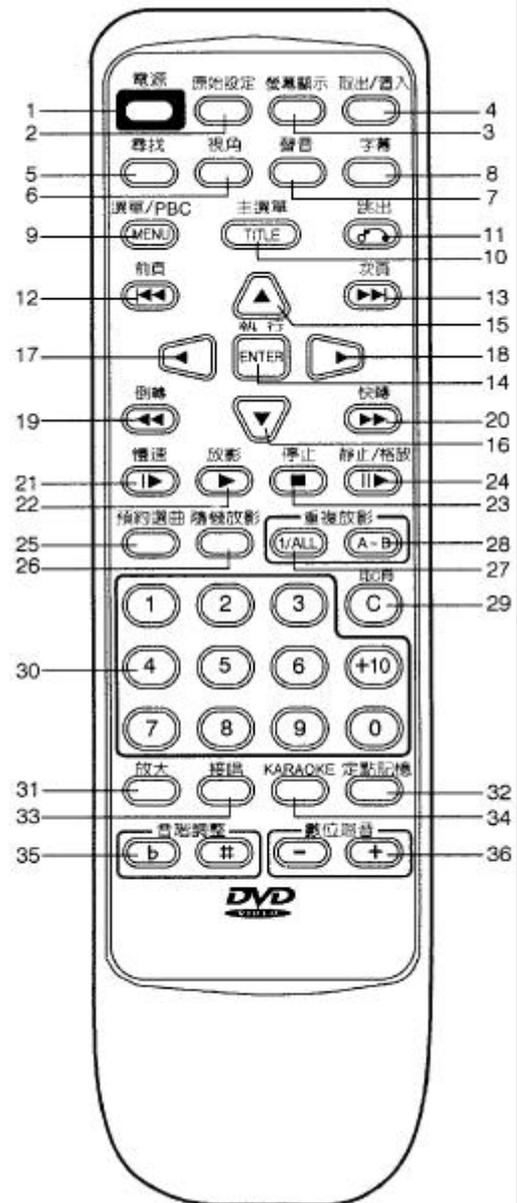
Notes on the remote control unit

- ① Do not use different types of batteries together, or mix old and new ones.

1.



- ① When the remote control unit does not function correctly or its operation range reduces, please replace both batteries at the same time.
- ① If the remote control unit will be not used for a long time, please remove the batteries to avoid possible damage from battery leakage or corrosion.
- ① Keep the remote control away from an extremely hot or humid location.
- ① Do not open the remote control unit



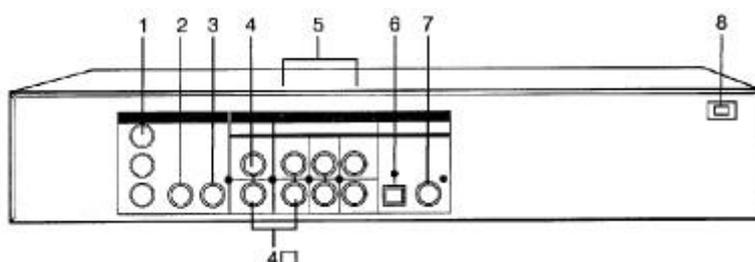
- POWER** button
Turn on/off the DVD player unit
2. **SETUP** button
Customize the settings. Refer to p. 12
3. **DISPLAY** button
Display the operation status
4. **OPEN/CLOSE** button
Open or close disc tray
5. **SEARCH** button
Title search, chapter search, and time search. Refer to p. 24
6. **ANGLE** button
Change the view angle. Refer to p. 23.
7. **AUDIO** button
Change the soundtrack. Refer to p. 24.
8. **SUB-T** button
Change the subtitle. Refer to p. 24.
9. **PBC/MENU** button
Enter the menu for DVD title or turn on/off the PBC function for VCD. Refer to pp.23/25
10. **TITLE** button
Enter the title menu for DVD disc. Refer to p.23.
11. **RETURN** button
Go back to the previous page of the menu
12. **PREV** button
Go back to the previous chapter during playback
13. **NEXT** button
Skip to the next chapter during playback
14. **ENTER** button
Select an item in the menu
15.  button
Move upward on the menu window
16.  button
Move downward on the menu window
17.  button
Move left on the menu window
18.  button
Move right on the menu window
19. **REV** button
Fast reverse playback during playback
20. **FWD** button
Fast forward playback during playback
21. **SLOW** button
Slow forward/reverse playback. Refer to p. 20
22. **PLAY** button
Start playing the disc.
23. **STOP** button
Stop playback
24. **STILL/STEP** button
Step playback.
25. **PROGRAM** button
Program playback for CD/VCD. Refer to p.21
26. **RANDOM** button
Random playback for CD/VCD. Refer to p.21
27. **1/ALL** button
Repeat playback a title or all on the disc. Refer to p.21
28. **A-B** button
A-B Repeat playback. Refer to p.21
29. **CLEAR** button
Clear the program playback, the repeat playback, the input password, or marker.
30. Digits
Directly make a selection on the menu, select the sound track during playback, or input the time and the password.
31. **ZOOM** button
Zoom the playback picture.
32. **MARK** button
Enter the menu of markers . Refer to p.22

REAR PANEL AND CONNECTIONS

⌵ Rear panel

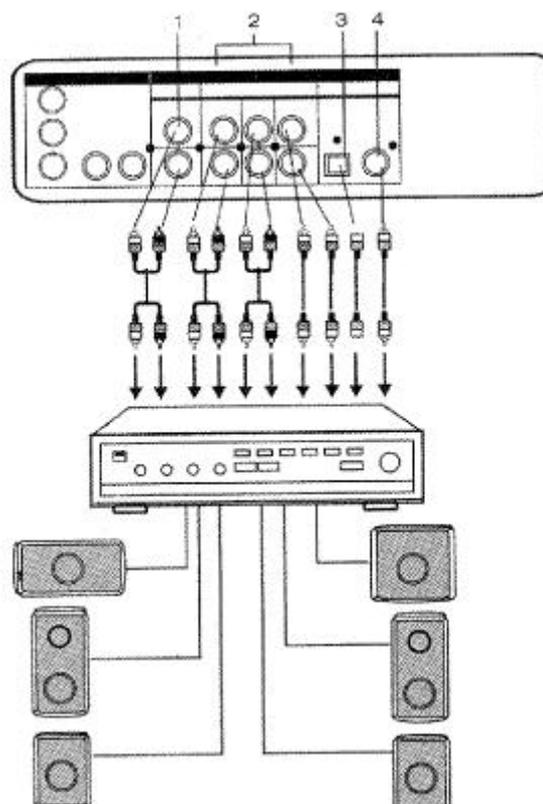
There are the following AV output terminals in the rear panel

- └ Video output terminals including
 - ✓ One Y/Cb/Cr Component-video terminal ❶
 - ✓ One S-video terminal ❷
 - ✓ One composite video terminal. ❸
- └ Audio output terminals including
 - ✓ One with two jacks for stereo sound ❹
 - ✓ One terminal with six RCA jacks for Dolby AC3 5.1ch analog audio outputs ❺
 - ✓ One optical jack for digital audio out ❻
 - ✓ One coaxial jack for digital audio out ❼
- └ One SCART terminal for RGB-video, S-video, or Composite-video with stereo sound. ❽



⌵ Audio Connection

There are stereo audio output terminal ❶ and analog 5.1ch audio output terminal ❷ for you to connect with the TV set or AV amplifier with up to 6ch inputs. Also, an optical terminal ❸ and a coaxial one ❹ are equipped for digital audio output, which you can connect with a standalone AV amplifier with Dolby AC-3 and DTS decoder for the better audio quality



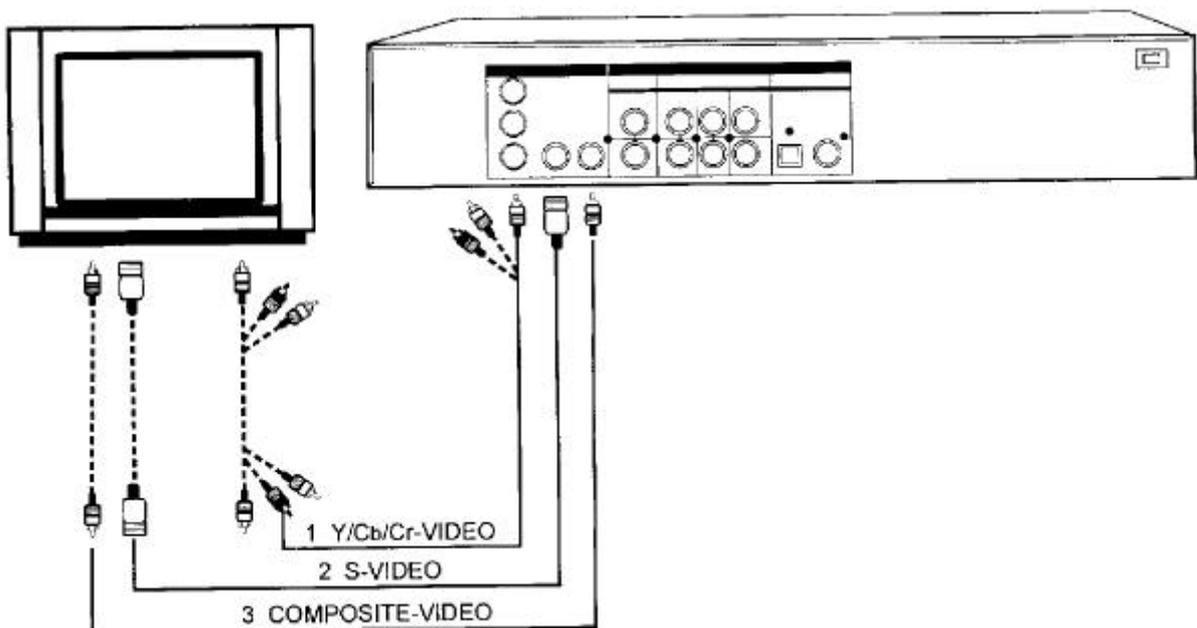
Video Connection

- └ **Y/Cb/Cr component video** output terminal can be connected to the TV set equipped with a component video input terminal for the best possible picture quality ❶.
- ① Whenever the component video output terminal is equipped for display, please set the VIDEO OUT setting to Y/CR/CB in the initial setting (Refer to p. 13)
- └ **S-Video** output terminal can be connected to the TV set equipped with an S-video input terminal for the better possible picture quality. ❷
- ① Whenever the S-video output terminal is equipped for display, please set the VIDEO OUT setting to S-VIDEO in the initial setting (Refer to p. 13)
- └ **Composite Video** output terminal always supports the video signal at all time no matter what VIDEO OUT setting is. It can be connected to the TV set for the normal picture quality ❸.

SCART Connection

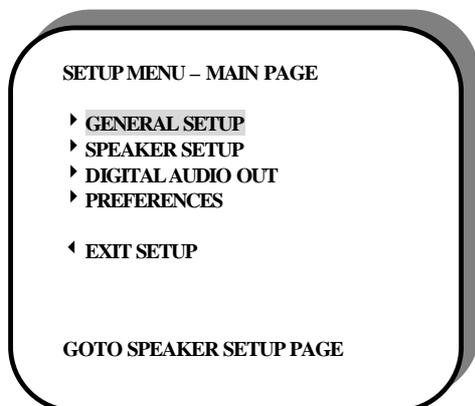
The SCART terminal can be connected to the TV set equipped with SCART connectors ❹. The audio transmitted on the SCART is stereo sound and the video can be selected among RGB-video, S-video and Composite video.

- ① Whenever the SCART terminal is connected for display, please set the VIDEO OUT to SCART and choose the correct video format by setting SCART OUT among RGB-video, S-video and Composite video (Refer to p. 13). If the VIDEO OUT is not at SCART, the SCART terminal also supports AV signal output, but the AV format is “composite video + stereo audio”



INITIAL SETTING

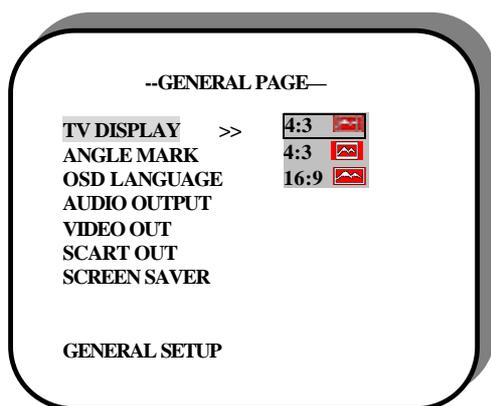
Press the **SETUP** button on the remote control into the initial setting, while the OSD for initial setting will be displayed as follows,



Four items are available in initial setting, which are

1. **General Setup** : general function setting for this unit
2. **Speaker Setup** : speaker output mode setting
3. **Digital Audio Out** : digital audio output setting
4. **Preferences** : your personal preferences

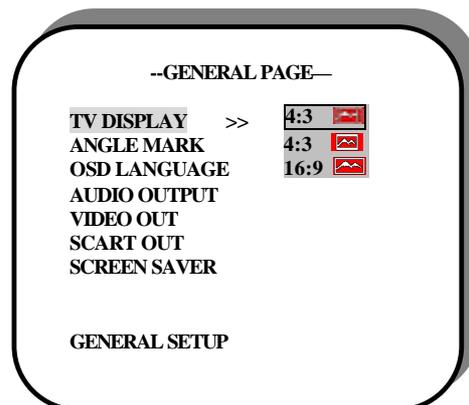
General Setup



There are seven items in the general setup, which are

TV Display

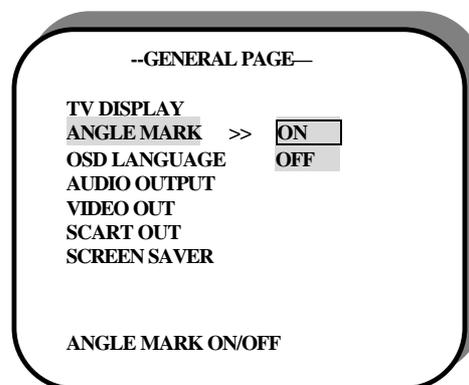
This DVD player provides three TV video modes :



- 4:3
4:3 pan & scan video output for normal TV set
- 4:3
4:3 letter box video output for normal TV set
- 16:9
16:9 video out for wide screen TV set

Angle Mark

During playback of a title with multi-angle section, the message "  " will appear on the lower corner of the screen.



- When ANGLE MARK is set at "ON", the angle mark always stays on the screen until the end of the playback title.
- When ANGLE MARK is set at "OFF", the angle mark also appears on the screen but just lasts 3 seconds.

OSD Language

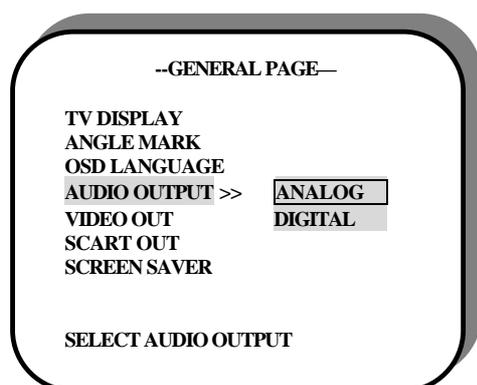
There are three OSD languages, which can be selected in this DVD player. They are ENGLISH, FRANCH, and GERMAN



Audio Output

Two audio output modes can be set

- **Analog** : Analog audio is output from Dolby AC3 5.1audio terminal and stereo audio terminal. There is no digital audio output
- **Digital** : Digital audio is output from the optical terminal and the coaxial terminals simultaneously. There is no analog audio output.

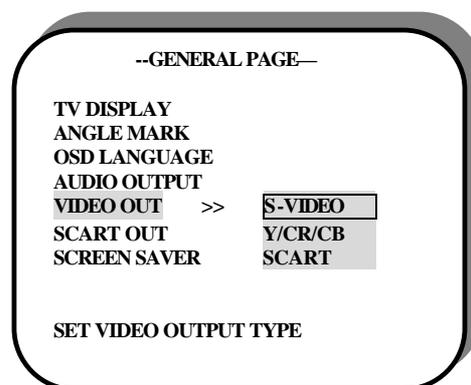


Video Output

The unit has four video output terminals, Y/Cb/Cr component video terminal, S-video terminal, composite video terminal, and SCART terminal. All these terminals can not output the related videos simultaneously. Therefore, the VIDEO OUTPUT setting is used to set what video terminal can output video.

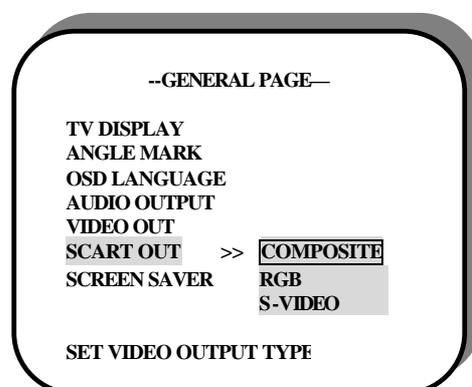
When S-video terminals is used to connect with TV, set VIDEO OUTPUT at "S-VIDEO"

- When Component video terminal is used, set VIDEO OUTPUT at "Y/CB/CR"
- When composite video terminal is used, any setting of VIDEO OUTPUT is available.
- When SCART terminal is used, if VIDEO OUTPUT is set at "S-VIDEO" or "Y/CB/CR", the composite video is output from the SCART terminal. If VIDEO OUTPUT is set at " SCART", the video output from the SCART terminal can be set by SCART OUT setting as shown below.



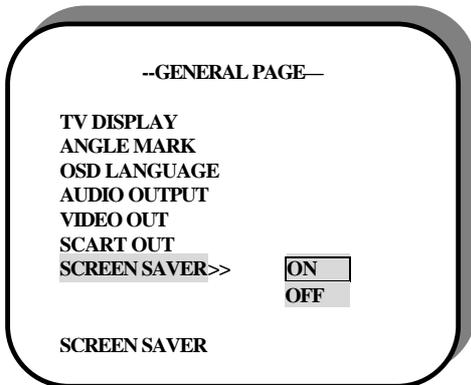
SCART Out

This DVD player has only one SCART terminal but supports three different types of video output from this terminal. They are composite video, RGB video, and S-video, which are dedicated by setting SCART OUT at "COMPOSITE", "RGB", and "S-VIDEO", respectively.



Screen Saver

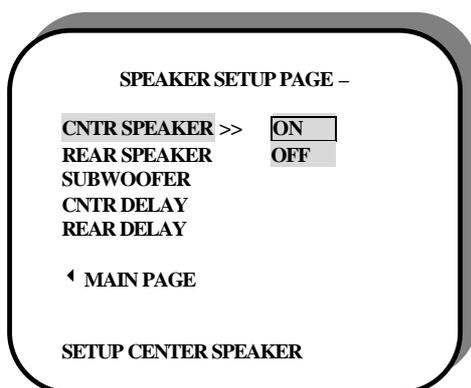
When this DVD player is idle such as stop, stay at setup menu, or no disc inserted, the screen saver can be triggered to prolong the TV life-time.



Speaker Setup

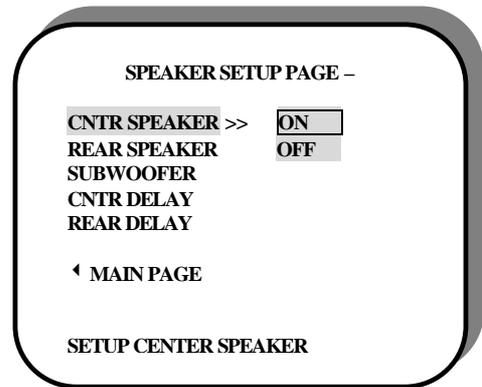
This setting is only available for the models with analog Dolby AC3 5.1ch audio output. All the settings are dependent on the number of your speakers. For example, if you have no the center speaker in your AV system, set CNTR SPEAKER at "OFF". The DVD player will down-mix the disabled audio channels into the other audio ones according to the Dolby AC3 decoding rule.

Because the center speaker or the surround speakers may not be installed at an equal distance compared with the front speakers for the listening position. Here, this DVD player also supports the delay time setting for center speaker and the surround speakers.



Center Speaker

Enable/Disable the center channel output. "ON" means "enable output" and "OFF" means "disable output".



Rear Speaker

Enable/Disable the surround channels output.

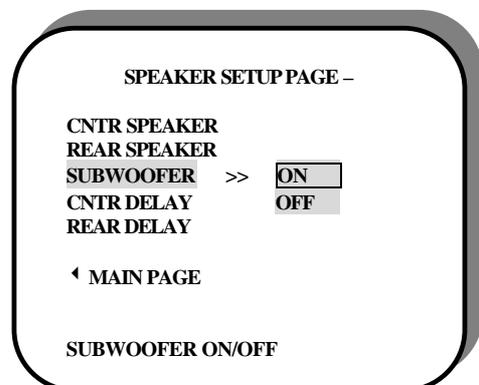


Subwoofer

Enable/Disable the subwoofer channel output. However, this setting also controls the bass management of Dolby digital.

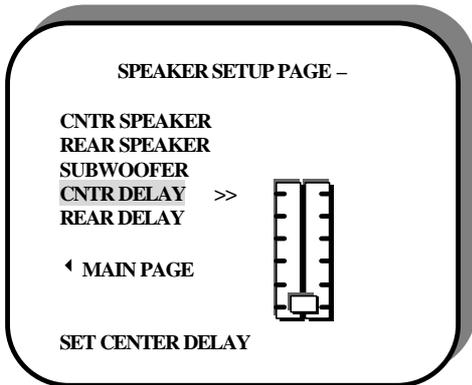
When SUBWOOFER is "ON", the bass of all the other channels will be redirected to Subwoofer speaker

When SUBWOOFER is "OFF", all the bass signals will be redirected to the front L/R channels.



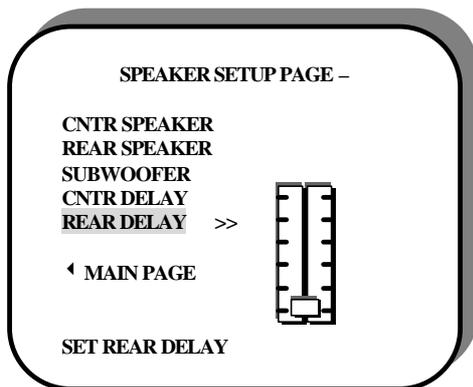
Center Delay

This unit supports the center time delay range of 0 to 5 ms in 1ms steps.



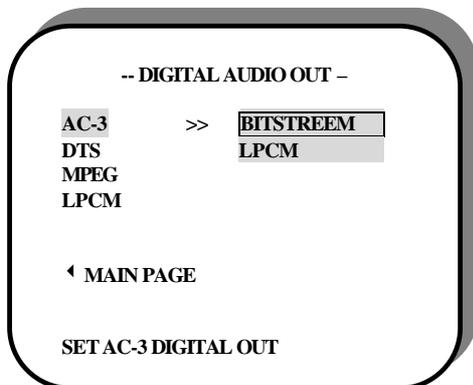
Rear Delay

This unit supports the surround time delay range of 0 to 15 ms in 3ms steps.



Digital Audio Out

This setting concerns the audio output format from the unit's optical/coaxial digital audio output terminal.



Disc	Audio encoding format	Digital output format
DVD	Dolby Digital (AC-3)	Bit stream(2-5.1ch) or 48kHz/2ch LPCM (up to 20bits)
	DTS	Bit stream or OFF
	Linear PCM (48/96kHz up to 24bits)	LPCM up to 48kHz/20bit or up to 96kHz
	MPEG	2ch LPCM (16bits)
Video CD	MPEG I	LPCM
CD	Linear PCM	LPCM

Where the digital output format is dedicated by this DIGITAL AUDIO OUT setting.

In the LPCM setting,

- “48K” means “the maximum output sampling rate is 48KHz”. Therefore, when the encoding sampling rate is 96KHz, the audio will be converted to 48kHz.
- “96KHz” means “ the maximum output sampling rate is 96KHz”. There is no converting process.

Preferences

Here, you can set the default audio/subtitle/disc language, and the parental level for a DVD disc. This setting is only available when the DVD player is in the STOP mode by pressing the **STOP** button twice.



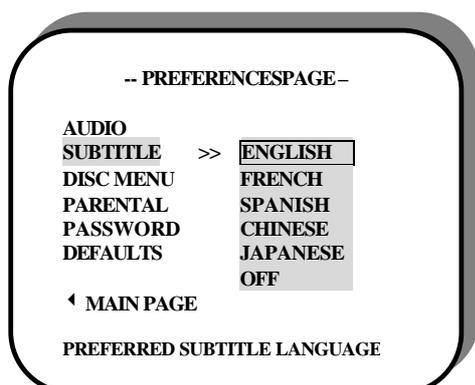
Audio

This unit supports five audio selections, as shown below, for your preferred default audio.



Subtitle

This unit supports five subtitle selections, as shown below, for your preferred default subtitle. When "OFF" is selected, there will be no subtitle to display default.



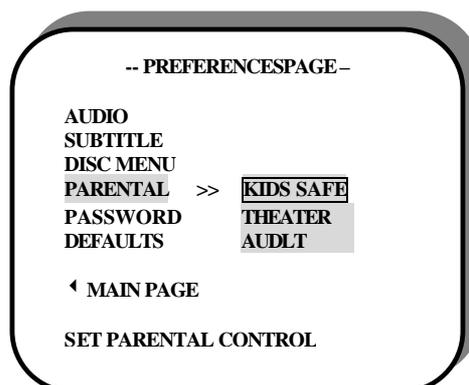
Disc Menu

This unit supports five disc languages for your default.



Parental

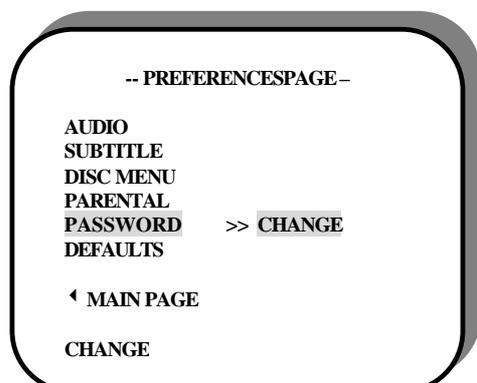
- At "KIDS SAFE" rating level, DVDs for children can be played back, but those for adults/general audiences are prohibited
- At "THEATER" rating level, DVDs for children/general audiences can be played back, but those for adults are prohibited
- At "ADULT" rating level, all DVDs can be played back.



When you want to change the parental rating level, you will be asked to enter the password as shown below.

Password

Here is the password setting and the password is 4 digit. When you want to change the current password, select "CHANGE" as shown below.



You will be first asked to enter the old password, then enter the new password, and confirm it again.

PASSWORD CHANGE PAGE

OLD PASSWORD

NEW PASSWORD

CONFIRM PASSOWRD

PLASE ENTER OLD PASSWORD

-- PREFERENCEPAGE --

AUDIO

SUBTITLE

DISC MENU

PARENTAL

PASSWORD

DEFAULTS

◀ MAIN PAGE

LOAD FACTORY SETTINGS

Defaults

When you select "RESET", all the initial setting will be reset to the default setting.

ON-SCREEN DISPLAY (OSD)

< DVD OSD modes

Whenever the **DISPLAY** button is pressed, the OSD mode changes among the following modes:

Mode 1

Only the status of pressed button and some special playback messages are displayed. The OSD message lasts only three seconds. For example, when the **OPEN/CLOSE** button is pressed, the OSD message becomes



Mode 2

Only title number, chapter number, and elapsed time are displayed as shown below



Mode 3

Title number, chapter number, information of the sub-title and the audio, and elapsed time are all displayed as shown below



< CD/VCD OSD modes

The CD/VCD OSD modes are described as follows

When PBC is on

There are three OSD modes possible:

- OFF mode – only display the function status of the pressed button or some messages.
- SINGLE ELAPSED mode – display elapsed time of the playback sound track.
- SINGLE REMAIN mode – display remaining time of the playback sound track.

When PBC is off or CD playback

Two more OSD modes are available:

- TOTAL ELAPSED mode – display elapsed time of all disc.
- TOTAL REMAIN mode – display remaining time of all disc.

The mode is displayed on the left top screen corner and time is on the left bottom screen corner as shown below



BASIC OPERATION

Preparation:

- └ If you use a television set, turn on its power and set the TV/video switch to "Video".
- └ If a sound system is used, the amplifier must be turned on first and make sure that its outputs are set properly.

Start playback

- Press the **POWER** button to turn on the DVD player.
- Press the **OPEN/CLOSE** button to open the disc tray
- Place a disc onto the tray and make sure that it is placed properly.
- Press the **OPEN/CLOSE** or **PLAY** buttons to playback the disc.

└ For a DVD disc, menu selection or some DVD playback functions can be used after playback.

└ For a VCD disc with PBC, PBC menu will be displayed on the screen. You can operate using the PBC menu, or press the PBC button to set PBC off and the disc will be played back straightforward.

└ For a VCD disc without PBC or a CD-DA, the disc will be played back straightforward.

Stop playback

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

- ⓘ When the unit is not used, please remove the disc and press the **POWER** button to switch the power to the standby mode.

Skip playback

Skip playback is not available during the playback of a VCD with PBC ON.

- └ Press the **NEXT** button to search the beginning of next track (VCD/CD) or next chapter (DVD) for playback.
- └ Press the **PREV** button to search the beginning of

the current track or chapter.

Still/Pause playback

Pause playback is only available during the playback of a CD-DA.

- Pressing the **STILL/STEP** button during the playback of a CD-DA, the playback will be paused.
- Pressing the **STILL/STEP** button during pausing playback, return to normal playback.

Step playback

Step playback is available during the playback of the other disc than the CD-DA. It supports a frame-by-frame still picture display.

- Press the **STILL/STEP** button to freeze the image.
- Press the **STILL/STEP** button again to skip to the next frame and so on.
- Press the **PLAY** button to return to the normal playback.

Fast Forward/Reverse scan

Fast forward scan and fast reverse scan can be operated by using the **FWR** and **REV** buttons, respectively.

└ Whenever the **FWR** or **REV** button is pressed, the fast forward/reverse scan is triggered and the speed changes in circles of 2X □ 4X □ 8X □ 12X □ 15X □ 30X □ normal □ 2X.

└ When the **PLAY** or **ENTER** button is pressed during fast forward/reverse scan, the normal playback will be resumed.

└ It is quite normal that the images may become discontinuous during fast forward/reverse scan.

└ When the fast forward scan reaches the end of a track (CD/VCD) or a title (DVD), the normal playback of the next track/title will be resumed.

└ When the fast reverse scan reaches the beginning of a track (CD/VCD) or a title (DVD), the normal playback of this track/title will be resumed.

⤵ **Slow-motion forward/reverse playback**

Press the **SLOW** button can trigger the slow-motion forward/reverse playback.

└ DVD

Whenever the **SLOW** button is pressed, the slow-motion playback is triggered and the speed changes in circles of fwd 1/2 □ fwd 1/4 □ fwd 1/8 □ rev 1/2 □ rev 1/4 □ rev 1/8 □ normal □ fwd 1/2.

└ VCD

Whenever the **SLOW** button is pressed, the slow-motion playback is triggered in speed circles of fwd 1/2 □ fwd 1/4 □ fwd 1/8 □ fwd 1/2.

└ Pressing the **PLAY** or **ENTER** button, the normal playback can be resumed.

└ During the slow-motion playback, the audio will be disappeared.

Advanced Operation

Repeated playback

Whenever the **1/ALL** button is pressed, the repeated playback is triggered and the message OSD is changed in circles of “1”, “ALL”, and “OFF”.

“1”

- ✓ Trigger the repeated playback of a chapter for a DVD disc.
- ✓ Trigger the repeated playback of a track for a CD disc or a VCD disc.

“ALL”

- ✓ Trigger the repeated playback of a title for a DVD disc.
- ✓ Trigger the repeated playback of all disc for a CD disc or a VCD disc.

“OFF”

Resume the normal playback.

A-B Repeated playback

Do repeated playback between any two points of a track or a chapter, which you can set randomly.

Press the **A-B** button during playback to set the beginning point (A) at the current playback time, while the OSD message “A” is shown on the right lower screen corner.

Press the **A-B** button again to set the end point (B) at the current play time, while the “A B” OSD message is shown. At the mean time, the repeated playback between the two points, A and B, starts.

Pressing the **A-B** button again, the normal playback is resumed, while the OSD message “OFF” is shown.

Random playback (only for a VCD with PBC off or a CD-DA)

Press the **RANDOM** button to trigger the random playback, while the OSD message “RANDOM ON” is displayed and lasts few seconds. During the random playback, a track will be chose randomly to playback

after another track is finished.

Pressing the **RANDOM** button again, the normal playback is resumed, while the OSD message “RANDOM OFF” is displayed and lasts few seconds.

Program playback

The program playback is only available for a CD-DA or a VCD with PBC off.

Track program

1. Press the **STOP** button to stop the playback.
2. Press the **PROGRAM** to program the tracks for program playback, while the following OSD message is displayed,



Where “Pxx:yy” denotes the yyth track in the disc is programmed at the xxth position

3. Press the numbers to program

For example: To program the 2nd track at the 1st position, the 4th one at the 2nd position, and the 6th on at the 3^d position, key digit **2**, digit **4**, digit **6** sequentially, while the OSD message changes as follows,

- ① The number bigger than 10 must be keyed by using [+10] additionally. For example, “22” is keyed in by pressing [+10] twice and then [2] once.
- ① The maximum program capability is 99 tracks.



the current time in the memory and, then, the position will be numbered.



Start/Cancel the program playback

- Press the **PLAY** button to start the program playback in order that you program.
- Press the **STOP** button to cancel the program playback and the program order is reset.
- During the program playback, the tracks you program will be played back in circles and the **NEXT** button and the **PREV** button can also be used for operation.

MARK

This DVD player supports 5 memory points for you to store markers.

Store makers

Press the **MARK** button during playback and the mark menu will be shown on screen. Press the **MARK** button again to exit from the mark menu.

Playback/Cancel marker

- When you press the **◀** or **▶** button to select a numbered position, the mark menu becomes



- Press the **ENTER** button to playback from the marker and, then, the mark menu will be cleared automatically.
- Press the **CLEAR** button to clear a marker and, then, the mark menu becomes



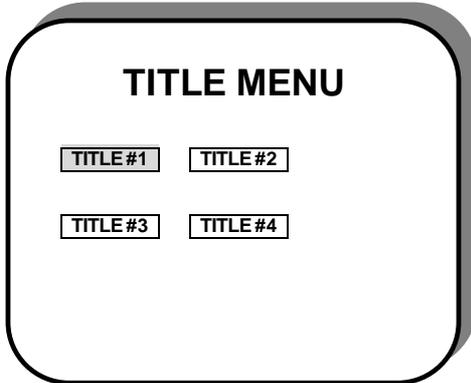
Where the digit means there is a marker stored in this memory, and “+” means no marker.

- Press the **▶** or **◀** button to select a “+” position.
- During playback, press the **ENTER** button to mark

⌘ Title Menu (DVD only)

Some of DVD discs has a title menu recorded on it used to select title for playback. The operation details for the title menu depends on the disc.

- Press the **TITLE** button during playback to title menu. Pressing the **TITLE** button again resumes the playback of the scene when the **TITLE** button was first pressed. For example,

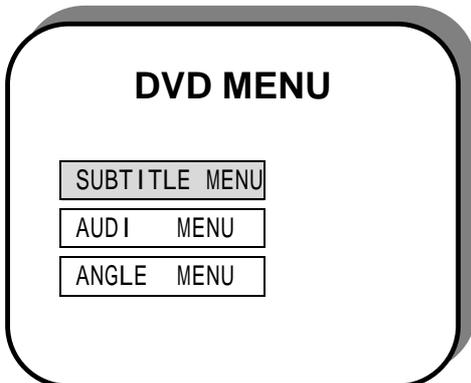


- Use the **▲**, **◀**, **▼**, **▶** buttons to control the direction and press the **ENTER** or **PLAY** button to select the preferred title. Or you can directly press the numeric buttons to select.

⌘ DVD menu (DVD only)

Some DVDs has complex contents such as multi-subtitle, multi-audio, or multi-angle. Therefore, they may provide guide menus for a title for audio language, subtitle language, or angle.

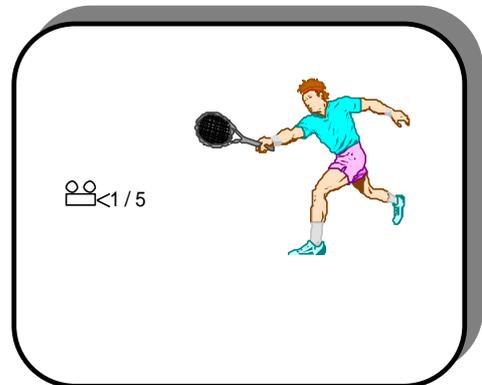
- Press the **MENU** button during playback and the DVD menu is displayed, if it is available on the disc. Pressing the **MENU** button again resumes the playback of the scene when the **MENU** button was first pressed



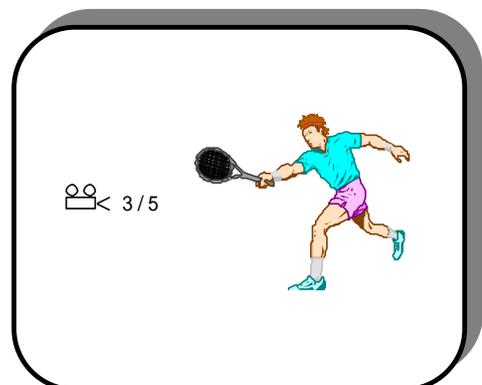
- Use the **▲**, **◀**, **▼**, **▶** buttons to control the direction and press the **ENTER** or **PLAY** button to select the preferred item. Or you can directly press the numeric buttons to select.

⌘ Multi-angle playback

- Some DVD discs may contain the scenes with a number of different angle views. Whenever a scene with multiple angle views is played back, you can use the **ANGLE** button to view this scene from each angle. (The mark "◻◻<" will appear on the screen during the playback of a scene with multi-angle views, if the "ANGLE MARK" in the initial setting is "ON".)



- Press the **ANGLE** button and the angle OSD message will appear to show the current angle number. If no selection is made, this message will disappear automatically after 3 seconds.



- Whenever the **ANGLE** button is pressed, the angle for playback will change in circles among the available angle numbers.

Changing subtitle during playback

During playback of a DVD disc with more than two subtitle languages, you can change the subtitle or disable the subtitle by press the **SUBTITLE** button.

- Press the **SUBTITLE** button and the subtitle OSD message will appear to show the current subtitle number. If no selection is made, this message will disappear automatically after 3 seconds.



- Whenever the **SUBTITLE** button is pressed, the subtitle for playback will change in circles among the available subtitle numbers and “OFF” status, where “OFF” means “Disable the subtitle display”.

Changing audio during playback

During playback of a DVD disc with more than two audio languages, you can change the audio language by press the **AUDIO** button.

- Press the **AUDIO** button and the audio OSD message will appear to show the current audio number. If no selection is made, this message will disappear automatically after 3 seconds.



- Whenever the **AUDIO** button is pressed, the audio for playback will change in circles among the available audio numbers.

Search

Under the search mode, specific title, chapter, or time can be dedicated for playback immediately.

DVD search functions

During a DVD playback, the search function can be triggered by pressing the **SEARCH** button and the OSD will show three search areas—title, chapter, and time.



Press the **SEARCH** again to cancel the search mode.

Press: **▲**, **◀**, **▼**, **▶** to go to the search area you want. Search operation can be done only in one area at a time.

Press **ENTER** to trigger the playback from the position you set.

VCD/CD search functions

During a VCD or CD playback, this unit only supports time search function.

Pressing the **SEARCH** button during playback, the OSD for VCD/CD search.

When the time is set, the playback from this position will start immediately.

↳ VCD's playback control (PBC)

This function is only available for the playback of a Video-CD Ver. 2.0 or more. The PBC operation may be different by disc. Therefore, please refer to all explanations in each disc package.

MENU/PBC button

Press the **MENU/PBC** button to switch on/off the PBC function, while the OSD messages "PBC ON" and "PBC OFF" will be displayed, respectively.

PREV and **NEXT** buttons

- On the PBC menu, the **PREV** and **NEXT** buttons are dedicated for "go back to previous page" and "go to next page" of the PBC menu, if exist.
- During playback, press the **NEXT** button to return to the PBC menu.

Digit buttons

On the PBC menu, all the items must be selected and executed by using the digit buttons directly.

TROUBLESHOOTING

Before requesting service for this unit, please check the following chart for a possible cause of the problem you are experiencing. Some simple checks or minor adjustment on your AV system may eliminate the problem and resume proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Common Symptom	Possible cause	Remedy
No power	✓ Power cord is not properly connected to the power outlet	✓ Make sure the connection between the power cord and the outlet.
Disc tray can not be closed	✓ Disc is not properly placed	✓ Re-place the disc properly.
No playback	<ul style="list-style-type: none"> ✓ Power is OFF ✓ No disc is inserted (“no disc” will be shown on screen. ✓ Disc is upside down. (“no disc” will be shown on screen.) ✓ Dirty disk ✓ Deformed disk ✓ Condensation happens 	<ul style="list-style-type: none"> ✓ Turn ON the power. ✓ Insert a disc ✓ Reload disk. The label side should face upward. ✓ Clean disc surface ✓ Change a new disc ✓ Turn power on and idle for 1-2 hours.
Too much mosaic image	✓ Poor disc	✓ Change to a new disc
No audio	<ul style="list-style-type: none"> ✓ Slow or fast playback ✓ Audio terminals are disconnected. ✓ TV volume is too small ✓ Wrong AUDIO OUTPUT Setting 	<ul style="list-style-type: none"> ✓ Press [PLAY] to resume normal playback ✓ Check audio connections ✓ Adjust TV volume ✓ Check AUDIO OUTPUT Setting
No Video	<ul style="list-style-type: none"> ✓ Disconnection of video equipment ✓ Wrong input setting of video equipment 	<ul style="list-style-type: none"> ✓ Check video connections ✓ Check video input setting of video equipment
Remote control unit does not work	<ul style="list-style-type: none"> ✓ No battery in remote control ✓ Dead batteries ✓ Do not point the remote control to the remote sensor 	<ul style="list-style-type: none"> ✓ Put in new batteries. ✓ Replace batteries ✓ Use the remote control properly

DVD Symptom	Possible cause	Remedy
Do not Playback even when a title is selected	✓ Prohibited by the parental rating	✓ Confirm the PARENTAL setting.
Audio or subtitle language is not that selected at the initial setting.	✓ Those selected language does not exists in the disc	✓ Select the other language using [AUDIO] or [SUBTITLE]
Setting language is not that you want	✓ Wrong OSD language setting	✓ Check the OSD language setting
Audio or Subtitle can not be changed	✓ The disc just contains one language	✓ Check the disc contents
The password for parental rating has been forgotten	✓	✓ Except the password you set, a super password “0000” always can help you

SPECIFICATION

Power requirement	AC 100~240 V, 50/60 Hz
Power consumption	26 W (approx. 6W at standby mode)
Weight	4.2Kg
Dimensions (W x D x H)	430x310x86 (mm)
Operating temperature range	+5 to 40 °C
Operating humidity range	5 to 90 % (no condensation)

Video system	NTSC 525/60 Hz or PAL 625/50 Hz	
Component video terminal	Y output level	1 Vp-p (75 Ω)
	Cb output level	0.7 Vp-p (75 Ω)
	Cr output level	0.7 Vp-p(75 Ω)
S-video terminal	Y output level	1 Vp-p (75 Ω)
	C output level	0.286 Vp-p (75 Ω)
Video terminal		1 Vp-p (75 Ω)
RGB video (SCART terminal)	R output level	0.7 Vp-p (75 Ω)
	G output level	0.7 Vp-p (75 Ω)
	B output level	0.7 Vp-p (75 Ω)

Audio parameters	Frequency range	20Hz ~ 20kHz
	Dynamic range	Over 90 dB
	S/N ratio	Over 90 dB
	Distortion	Under 0.01%
	Output level	2 Vrms

Label

<ol style="list-style-type: none"> 1. First class laser product 2. Danger: when the internal functions are out of order or damaged, opening the cover may cause unseen radioactivity. It should be kept away from direct light. 3. Caution: Do not open the top cover. No internal part should be maintained or serviced by the user. All such work should be carried out by qualified personnel. 	<p>Rating labels on the back of the machine</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> <p>CLASS 1 LASER PRODUCT</p> </div>
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Dolby License

— Product Manual LICENSE NOTICE

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— TRADEMARK ACKNOWLEDGEMENT

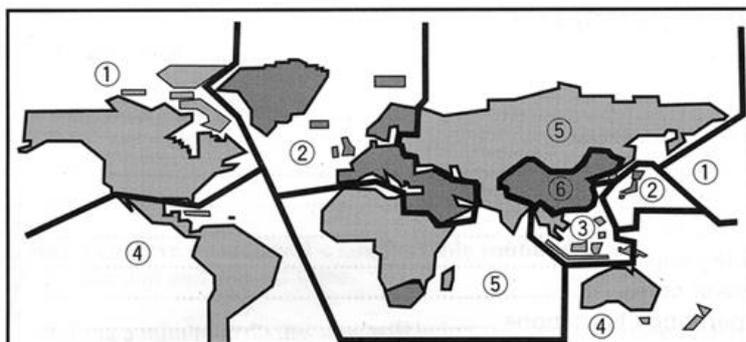
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Region Management Information

This DVD player is designed and manufactured to respond to the Region Management Information recorded on a DVD disc. If the region number described on the DVD disc does not correspond to the region number of this DVD player, this DVD player will not playback this disc, while the OSD message “WRONG REGION” will show on the screen.



Description of SCART Terminal

Pin No	Video	RGB-Video	S-Video
1	Audio Output (R)	Audio Output (R)	Audio Output (R)
2	Audio Output (L)	Audio Output (L)	Audio Output (L)
3	No Connection	No Connection	No Connection
4	Audio GND	Audio GND	Audio GND
5	No Connection	Blue GND	No Connection
6	No Connection	No Connection	No Connection
7	No Connection	Blue	No Connection
8	Switching Voltage	Switching Voltage	Switching Voltage
9	No Connection	Green GND	No Connection
10	No Connection	No Connection	No Connection
11	No Connection	Green	No Connection
12	No Connection	No Connection	No Connection
13	No Connection	Red GND	S-Video (C) Output GND
14	Blanking GND	Blanking GND	Blanking GND
15	No Connection	Red	S-Video (C) Output
16	Blanking	Blanking	Blanking
17	Video Output GND	Video Output GND	S-Video (Y) Output GND
18	No Connection	No Connection	No Connection
19	Video Output	Video Output	S-Video (Y) Output
20	No Connection	No Connection	No Connection
21	GND	GND	GND