



THE REAL SOUND

# DVD Receiver DR-110



*Instruction manual*

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## WARNING & IMPORTANT

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

**WARNING: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.**



**CAUTION**  
**RISK OF ELECTRIC SHOCK.**  
**DO NOT OPEN**



**CAUTION:**

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 un-insulated voltage within the unit that can cause dangerous electric shocks.



This symbol alerts the user that there are important operating and maintenance instruction 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.

**INFORMATION:**

This equipment has been tested and found to comply with the limits for a Class B digital 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 SAFEGUARDS AND PRECAUTIONS

**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. Placing the DVD player on a bed, sofa, rug, or other similar surface should never block the openings. 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. If you are not sure of the type of power available, consult your dealer or local service.
7. As a safety feature, your DVD video player is equipped with either a 2-wire polarized plug (one plug blade bigger than the other) or a 3-wire grounded plug (a third pin for grounding). The 2-wire polarized plug will fit only one way in to power outlet. The 3-wire grounded plug will fit only into a grounding-type power outlet.
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.

**This digital versatile disc (DVD) video player uses PAL and NTSC video signals and 100-240V AC, 50/60Hz (standard household current).  
For future reference, record the model and serial number (located on the rear of the DVD video player) in the space provided.**

**Model No:** \_\_\_\_\_

**Serial No:** \_\_\_\_\_

# FEATURES

## Compatible With DVD, Super VCD, VCD, Audio CD, CVD, and MP3 Media Format.

This DVD player can play a variety of disc media including DVD Video, Video CD, Audio CD, Super VCD, CVD, and MP3 media format.

## Input Switches/RDS PS Function

The input switches function can switch the status between DVD, AUX-input, TV, VCR, and TUNER. This DVD player also provides RDS PS (Radio Data System Program Service station name) function under FM mode.

## Analog Audio Output

This DVD player can output either down mixed audio with LT/RT and Stereo modes or 5.1ch audio output with the inner Amplifier.

## Digital Audio Outputs

The DVD player features one optical audio output. User selectable SPDIF/RAW and SPDIF/PCM digital audio maximizes convenience when switching between DVD and Audio CD playback.

## Dolby® Digital & DTS® Digital Audio Output Support

This DVD player can send Dolby® Digital or DTS® Digital audio data via its built-in digital audio output to an external Dolby® Digital or DTS® Digital decoder.

## High Quality 96kHz/24bit Audio D/A Converter

This DVD player features a 96kHz/24Bit D/A converter for superior audio reproduction of encoded discs.

## 10-Bit/27MHz D/A Video Converter

This DVD player's 10-bit/27MHz D/A converter is four times more accurate than conventional 8-bit converters. The result is artifact-free and crystal clear video image.

## Video Zoom Support

The user selectable digital video zoom-out, zoom-in on a specific portion of a video image is.

## Multi-Speed Fast Forward/Reverse Scan

The digital fast forward/reverse scan function is capable of scanning with different speeds.

## Multi-Speed Slow Motion Forward / Reverse Scan

This DVD player offers perfect slow motion scans.

## Volume Control of Analog 5.1ch audio output all or individual control

This DVD player can control the volume of analog audio output from remote control.

## Auto Power Shut Down Function

This DVD player offers auto power shut down function. When the player is not in use for 20 minutes, the player will shut down automatically to save the power consumption and prolong the life of DVD player. Invalid with the inner Tuner turned on.

**SPEAKER SETUP** refer to P.17

### SPEAKER TO BE USED

This unit is designed to provide the best sound-field quality with a 5.1ch speaker configuration. The most effective speakers to use with this unit are main speakers, rear speakers, a center speaker and a subwoofer.

The main speakers are used for the main source sound plus the effect sounds. They will probably be the speakers from this DVD/ AV Amplifier player. The rear speakers are used for the effect and surround sounds, and the center speaker is for the center sounds (dialog etc.) within programs encoded with Dolby Surround sounds. The Subwoofer is for the effect of a super low bass to the music broadcasting. The center speaker needs to be equal in power to the main speakers, although the rear speakers should not to be equal. However, all the speakers should have high enough power handling to accept the maximum output.

# PACKAGE CONTENTS

Please verify that the following items are included within the DVD carton. If items are missing, please promptly return this unit to the retailer for an exchange.

## DVD Player



x1

## Remote Control Unit



x1

## AA Batteries



x2

## SCART Cable



x1

## AM/FM ANTENNA



One Each

## Operation Manual



x1

# PRECAUTIONS

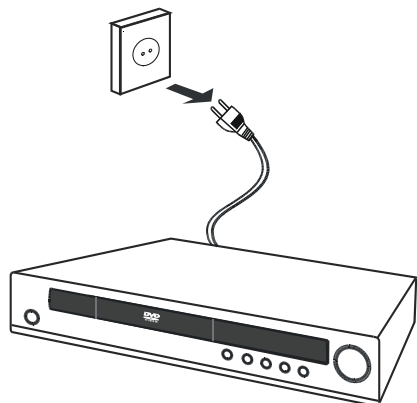
Please read the following carefully to get the best and safest performance from this DVD player

## Power Supply

Make sure to use the correct power outlet as rated on the back of the DVD unit. (AC 100-240V)

## Power Cord

- Do not put any heavy objects on top of the power cord to avoid fires or electrical shocks caused by cord damage.
- Unplug the power cord if the unit will not be used for a long time.

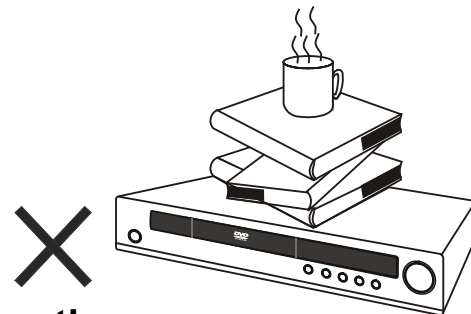


## Unit Placement

- Do not** place this unit in locations with:
  - ✓ Vibrations
  - ✓ High humidity
  - ✓ Poor ventilation
  - ✓ Direct sunlight
  - ✓ Extremely high or low temperatures
- This unit should be placed on a horizontal surface only.
- Keep this unit away from television sets, radios, computers and loudspeakers to avoid magnetic field interference.

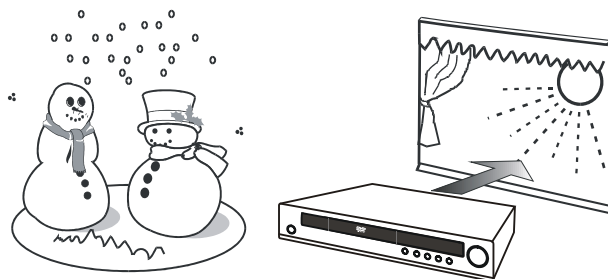
## Usage and Storage

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



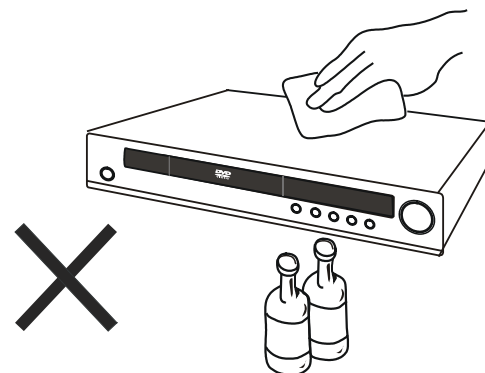
## Condensation

- Condensation may result from moving the unit from a cold place to a hot place. Please turn the power on for 1 to 2 hours before using this unit if condensation occurs.



## Unit Cleaning

- Clean the front panel and the body of the unit with a dry soft cloth. Other areas can be cleaned using a soft cloth moistened with a mild detergent. Do not clean with evaporative solutions to avoid possible damage to the unit.



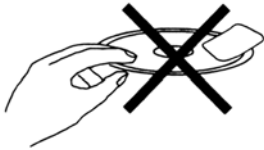
# DISC CARE

## Disc Usage

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



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

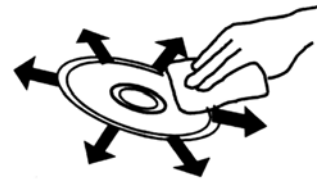


- ☞ The disc spins at a high speed during playback. Do not use damaged, cracked, or warped discs because they could damage the unit.



## Disc Cleaning

- ☞ Fingerprints or dirt on disc surfaces can weaken the light reflected from the disc and directly influence the signal quality. The poorer the signal quality, the poorer the playback performance. Keep the disc clean by wiping it straight out from the center with a dry soft cloth.



- ☞ If the disc is very dirty, wipe with a moist soft cloth, then follow with a dry soft cloth.
- ☞ Do not use record cleaning sprays, benzene, thinner, anti-static electricity liquids, or any other solvent. These may damage the disc surface.




## Disc Storage

- ☞ Please keep the discs in their original cases to avoid bending the discs. Do not keep discs in locations with high temperature, high humidity, or direct sunshine. These conditions may also cause damage to the discs.
- ☞ Carefully read all instructions on the disc label.



# DISC COMPATIBILITY CHART

This DVD player can play the following types of discs:

Disc Type	Dimension/Side/Layer	Max. Playback Time (Storage Capacity)
DVD Video 	DVD	MPEG2 TYPE
	12 cm (5") /single sided/single layer	133 min. (4.7 GB)
	12 cm (5") /single sided/double layer	242 min. (8.5 GB)
	12 cm (5") /double sided/single layer	266 min. (9.4 GB)
	12 cm (5") /double sided/double layer	484 min. (17 GB)
	8 cm (3") /single sided/single layer	41 min.
Video CD 	VCD	MPEG1 TYPE
	12 cm (5")/single sided/single layer	74 min.
Audio CD 	CD	CD
	12 cm (5")/single sided/single layer	74 min.
	8 cm (3")/single sided/single layer	20 min.

☞ DVD and VCD Discs contain both video and audio and can support multiple audio tracks.

☞ Audio CD: Discs have audio only.

☞ Do not insert DVD-ROMs, CD-ROMs intended for computers in this DVD player.

☞ This unit complies with VCD ver. 1.1, ver. 2.0.

☞ This unit is compatible with CD-R & CD-RW.

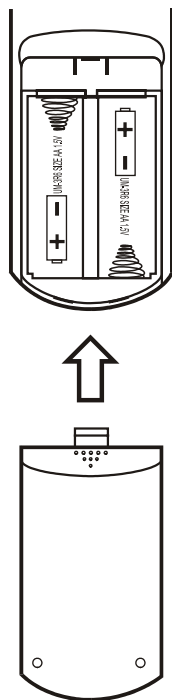
☞ The playback time of SVCD is among 37 minutes.

# REMOTE CONTROL UNIT

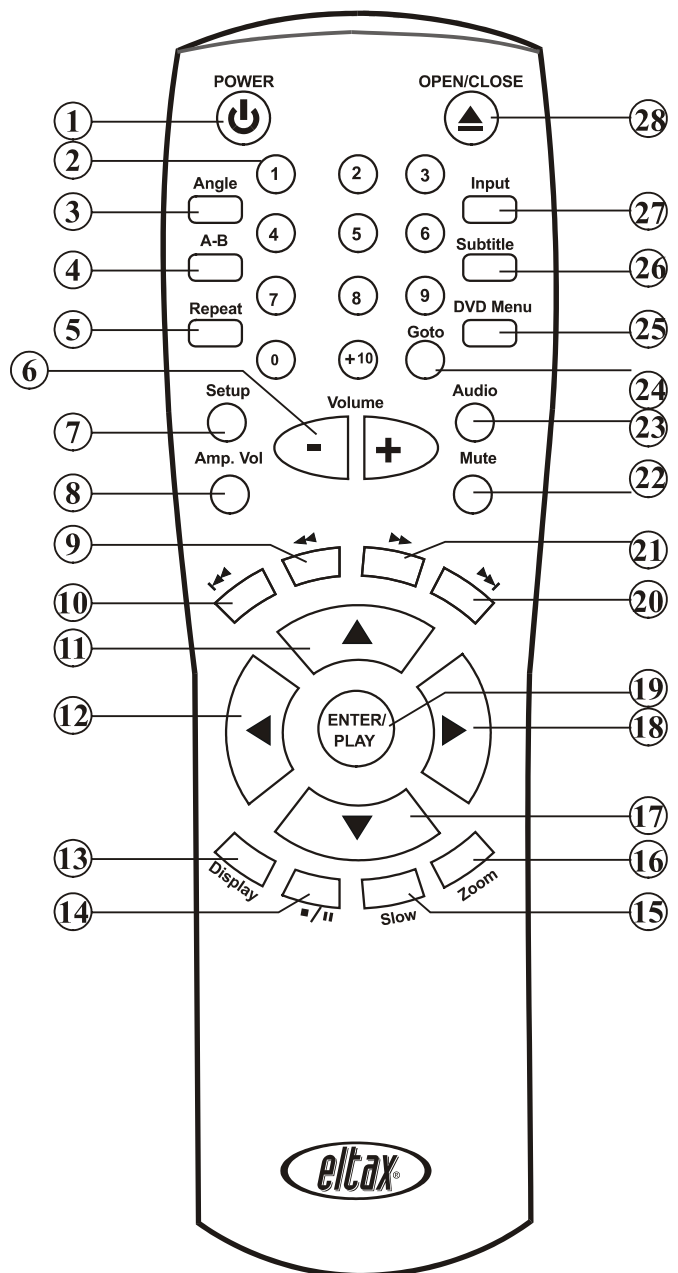
To use the remote control unit to operate the DVD player, insert two batteries (size AA) making sure that the + and – ends of the batteries are matched to the +/- marks printed inside the battery compartment. To use the remote controller, please point the remote control unit at the remote sensor on the DVD player.

Notes:

- ① Do not use different types of batteries together, or mix old and new batteries.
- 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 controller away from extremely hot or humid locations.
- ① Do not open the remote controller unit.












Insert two AA Batteries.



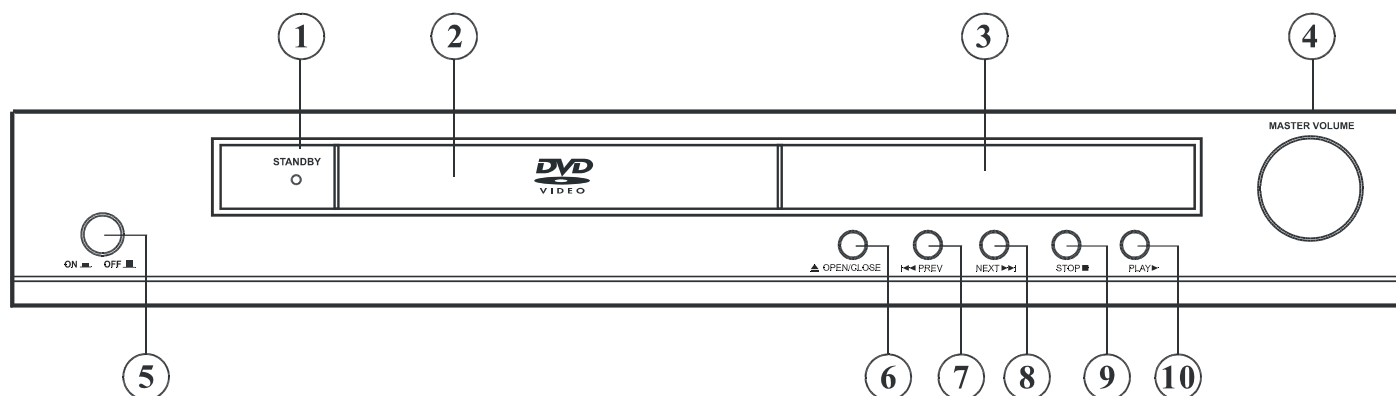
## Remote Control Unit

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1. **POWER**  
Switches power ON/OFF. Refer to P.23.
2. **DIGITS – 0,1,2,3,4,5,6,7,8,9, +10**  
Used for direct selection of menu choices, audio tracks, and other input such as time etc. Under Tuner mode, stores FM station FREQ, up to 20 stations can be stored. Refer to P.28 & P.29.
3. **ANGLE**  
If the DVD disc contains multiple view angles, this button will change the viewing angle displayed by the DVD player. Refer to P.27.
4. **A-B**  
Display A-B repeat playback. Refer to P.26.
5. **REPEAT**  
Shows repeat playback for one title, or all titles on the disc. Refer to P.26.
6. **VOLUME – & +**  
Reduce / Increase the volume of analog audio output. Refer to P.31.
7. **SET UP**  
Customizes settings. Refer to P.13.
8. **AMP VOL**  
Switches volume adjustment between all and each channel Left, Center, Right, Rear Left, Rear right. Refer to P.31
9.   
Fast reverse scans during playback. Toggles between X2, X4, X6, and X8 or for back search of Tuner stations. Refer to P.24 & P.29.
10.   
Goes back to the previous chapter during play. Under tuner mode, turns in previous lower FREQ station. Refer to P.23 & P.30.
11.   
Used for navigation within a selection menu. Refer to P.26
12.   
Used for navigation within a selection menu and for lower FREQ fine-tuning when the Tuner is on. Refer to P.26 & P.30.
13. **DISPLAY**  
On-Screen display of the DVD player's operational status. Refer to P.22.
14.   
Pause or stops the playback. Push this button once for pause and twice for pre-stop and thrice for full stop (DVD MODE). Push this button once for pause and twice for stop (VCD MODE) Refer to P.25.
15. **SLOW**  
Engages slow-motion forward/reverse playback. Refer to P.24.
16. **ZOOM**  
Enters the zoom mode (X1.5, X2, X3) during playback.
17.   
Used for navigation within a selection menu. Refer to P.26
18.   
Used for navigation within a selection menu and for lower FREQ fine-tuning when the Tuner is on. Refer to P.26 & P.30.
19. **ENTER/PLAY**  
Confirms selection of an item in the menu or starts playing the disc. Refer to P.23 & P.26.
20.   
Skips to the next chapter during play. Under tuner mode, turns in next higher FREQ station. Refer to P.23 & P.30.
21.   
Fast-forward scans during playback. Toggles between X2, X4, X6, and X8 or for forward search of Tuner stations. Refer to P.24 & P.29.
22. **MUTE**  
Use to mute the sound of playback.
23. **AUDIO**  
During playback of a DVD disc with two or more audio languages, this button changes between the audio languages played. Refer to P.27.
24. **GOTO**  
Enables search mode by title/chapter and time. Refer to P.28.
25. **DVD MENU**  
Some DVDs have complex submenus. This button allows access to these submenus. The button turns on/off the Playback Control function during SVCD or VCD playback. Refer to P.26.
26. **SUBTITLE**  
During playback of DVD discs with two or more subtitle languages, this button toggles between available subtitle languages. Refer to P.27.
27. **INPUT**  
Switches between DVD, AUX-INPUT, TV, VCR and TUNER mode. Refer to P.28.
28. **OPEN/CLOSE**  
Opens or close disc tray. Refer to P.23.

# FRONT PANEL/DISPLAY WINDOW

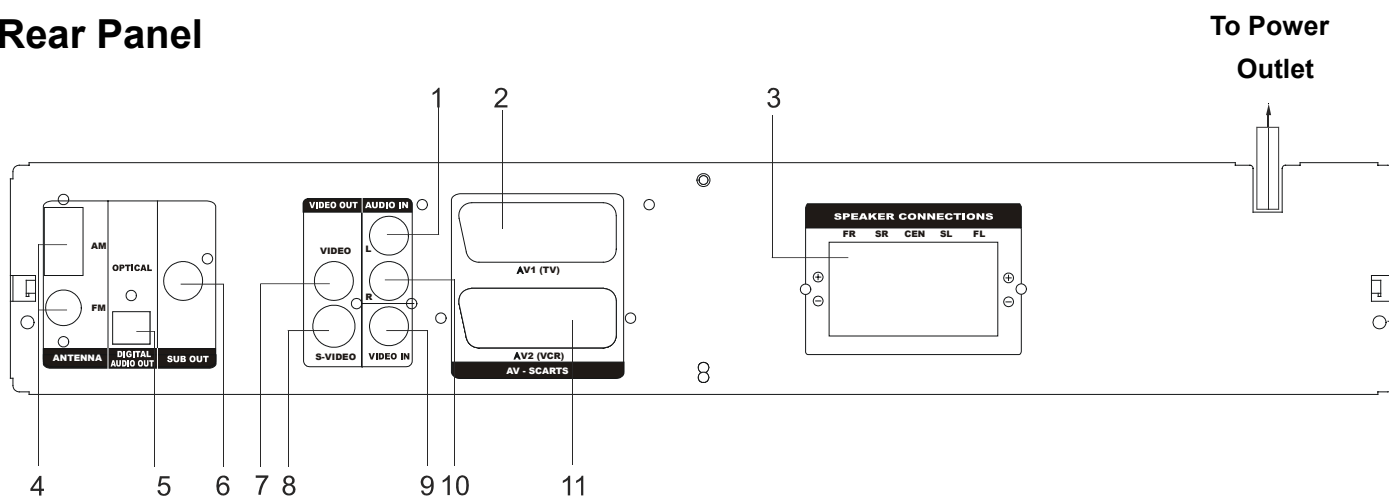
## Front Panel



## Front Panel Controls Reference Guide

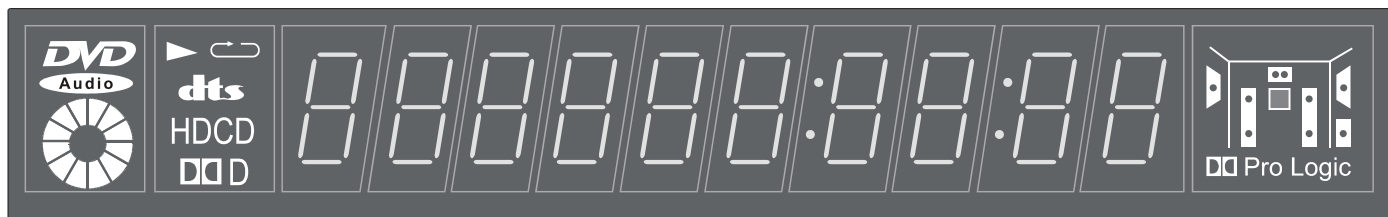
- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. STANDBY (Remote Sensor)</li> <li>2. Disc Tray</li> <li>3. Multi-Function Display Window</li> <li>4. Volume Knob</li> <li>5. Power On/Off button</li> </ol> | <ol style="list-style-type: none"> <li>6. Open/Close (Eject) Button</li> <li>7. Previous Button</li> <li>8. Next Button</li> <li>9. Stop Button</li> <li>10. Play Button</li> </ol> |
|--|---|

## Rear Panel



- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Audio In Jack: Left Channel</li> <li>2. SCART Terminal AV1 (TV)</li> <li>3. Speak System Terminals:<br/>FR/SR/CENTER/SL/FL</li> <li>4. AM/FM/RDS Antenna</li> <li>5. Optical Audio Out</li> </ol> | <ol style="list-style-type: none"> <li>6. Speak System Terminal: SUBWOOFER</li> <li>7. Composite Video Output Jack</li> <li>8. S-Video Output Jack</li> <li>9. Video In Jack</li> <li>10. Audio In Jack: Right Channel</li> <li>11. SCART Terminal AV2 (VCR)</li> </ol> |
|---|---|

# Display Window



# REAR PANEL AND CONNECTIONS

## Video Output Terminals and Connections

### Composite Video Output Terminal

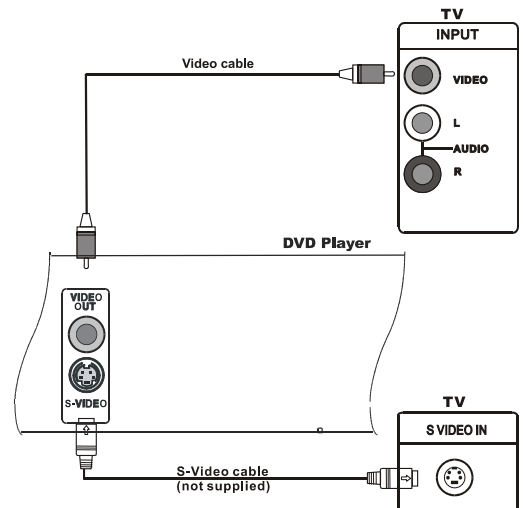
Composite video output is the most commonly used video connection in use today and is supported by most televisions and A/V receivers. Composite video is set to display without user setup.

### S-Video Output Terminal

You will want to use S-Video output with televisions or monitors equipped with an S-Video input.

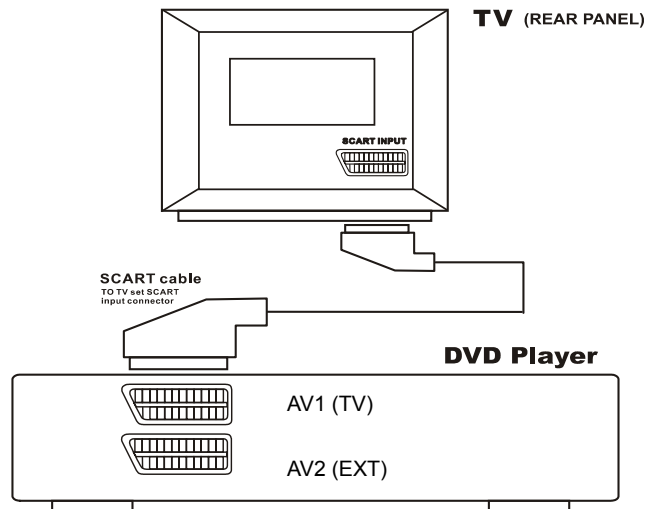
NOTE:

- ① S-Video cable is not included with this player.



### SCART Terminal

1. The SCART terminal AV1 (TV) can be connected to the TV set equipped with SCART connectors.



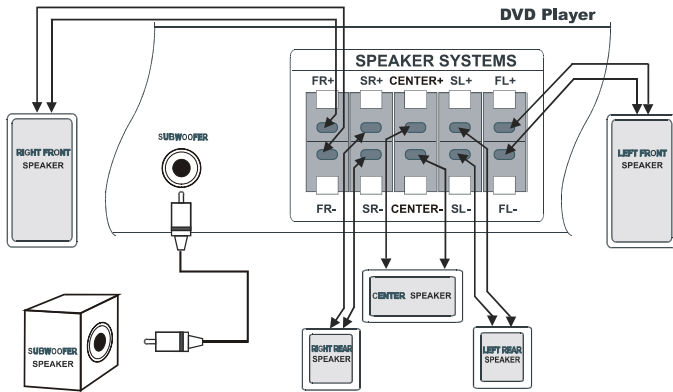
NOTE:

- ① Figures and silkscreen in this book for reference only.
- ① For selected TVs, when the TV set is at standby mode, power on the DVD player will automatically power on the TV and switch to the SCART video input channel.

## Speaker System Terminals

Use Speaker System for connection with the external Speakers of FR, FL, R Surround, L Surround, Center and Sub woofer.

\* **External Speakers Load** (of FR, FL, R Surround, L Surround, Center): **4 ohms**; Subwoofer with RCA JACK.

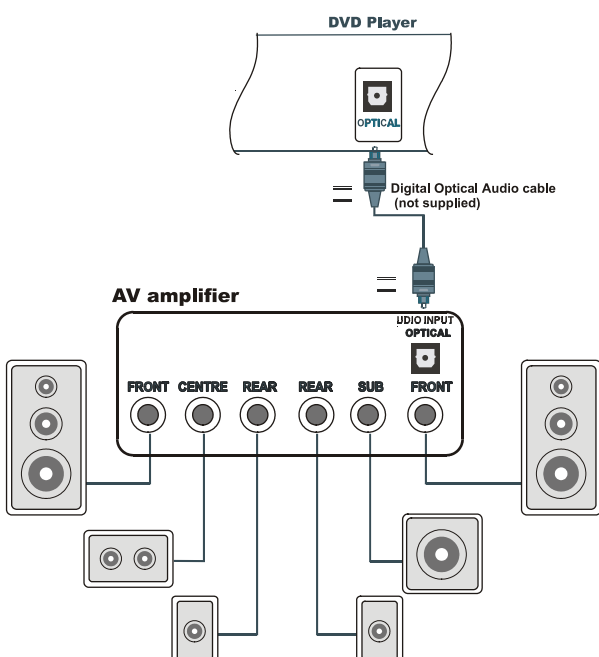


## Optical Digital Audio Output Terminals

Use digital audio outputs for connection with an external Dolby® Digital or DTS® decoder. To use the Optical output, you will need to purchase an Optical cable for connection with the Optical Input Terminal of an AV amplifier. (Digital cable is not included with this player.)

Note when connecting the Optical digital cable:

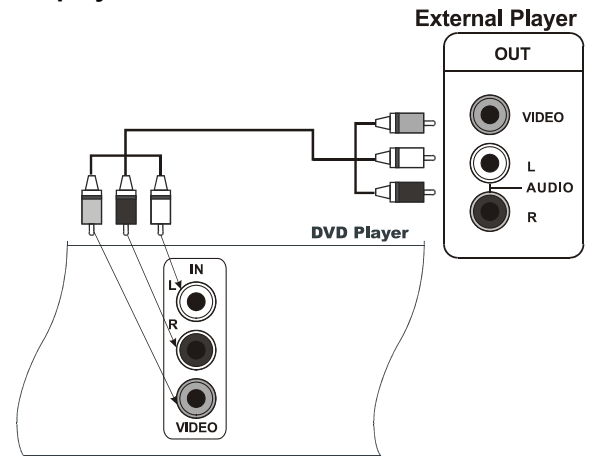
- Remove the dust protection cap from the connector and connect the cable firmly so that the configurations of both cable and connector match.
- Keep the dust protection cap and always re-attach the cap when not using the connector to protect against dust.



## AUX IN Terminals and Connections Video In and Audio IN Terminals and Connections

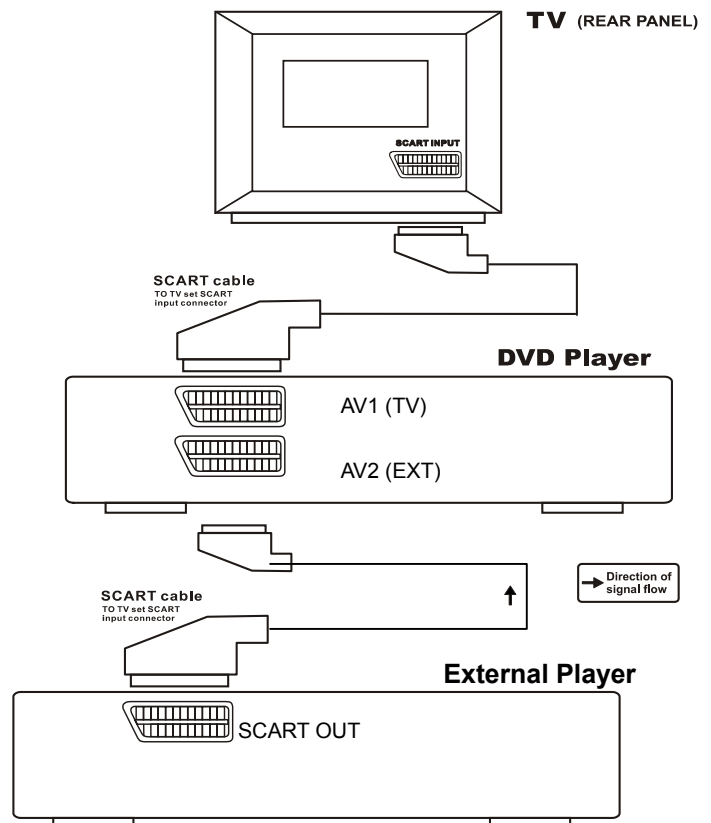
Use AUX IN terminals (Video in & Audio in) for connection with the external players.

\* **External players:** such as DVD, VCR and so on.



## SCART Terminal

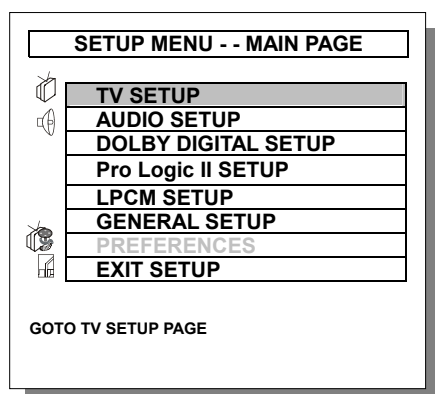
- The SCART terminal AV1 (TV) can be connected to the TV set equipped with SCART connectors.
- The SCART terminal AV2 (EXT) can be connected to another external player.



NOTE: Figures and silkscreen in this book for reference only.

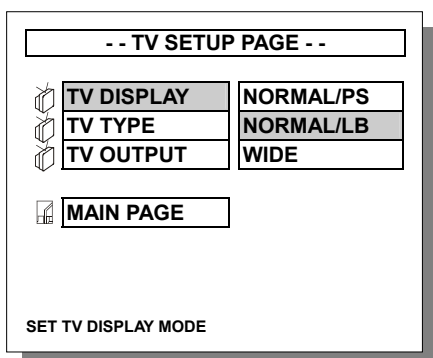
# INITIAL SETTING

Press the **SETUP** button on the remote controller to set up the initial setting. The On-Screen Display (OSD) will display below:



## TV SETUP

There are three available items: They are TV DISPLAY, TV TYPE, and TV OUTPUT.



## TV DISPLAY

☞ NORMAL/PS

4:3 Pan & Scan video output for a normal TV set

☞ NORMAL/LB

4:3 Letterbox video output for a normal TV set

☞ WIDE

16:9 Wide Screen video output for a wide screen TV set

NOTES:

① Aspect ratios available for playback will be printed on the DVD disc rear packaging.

① Some DVDs are recorded in the Cinema Wide format (16:9 aspect ratio), and some are recorded in the standard format (4:3 aspect ratio). Some DVD discs are recorded in both formats and may have the Pan Scan feature available. The Pan Scan feature if available will fill the entire screen in 4:3 TV screen. However, it will cut some of the picture off at the two sides.

## TV TYPE (TV System)

There are three available items to switch TV System:

They are MULTI, NTSC and PAL.

☞ MULTI

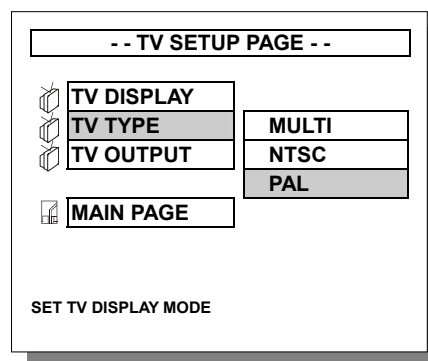
The DVD player will choose the correct system to display the playback of inserted disc.

☞ NTSC

The DVD player will output in NTSC format regardless of what format the disc was designed for.

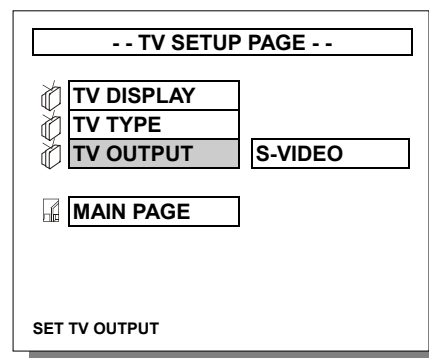
☞ PAL

The DVD player will output in PAL format regardless of what format the disc was designed for.



## TV OUTPUT

The TV OUTPUT has S-VIDEO option only.



NOTE:

① S-Video output and SCART video output can be used simultaneously, but the SCART terminal provides composite video only.



## AUDIO OUT (Speaker setup)

There are two available items: They are **AUDIO OUT** and **DOWN MIX**.

### ☞ AUDIO OUT

You can choose to send the player's audio signals to an external receiver using the following outputs:

#### ☞ ANALOG:

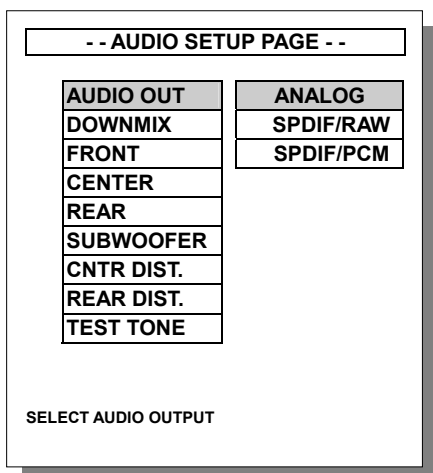
Audio signals are sent using inner amplifier. Selecting this choice will disable the digital audio outputs.

#### ☞ SPDIF/RAW:

Set to this selection will output the raw bit stream signal of Dolby Digital or DTS from the optical jack. In order to enjoy Dolby® Digital DTS discs, this unit's digital output jack must be connected to the digital-input jack of a Dolby® Digital or DTS compatible receiver or processor.

#### ☞ SPDIF/PCM:

PCM stands for Pulse Code Modulation and is digital audio. Connecting this unit to an amplifier with a built-in D/A converter can play the same digital audio format as on CDs.



### NOTES:

- ① Do not play the Dolby Digital or DTS sound tracks on an audio component without having a built-in Dolby Digital or DTS decoder. Otherwise, when you play the Dolby Digital or DTS sound track, a loud noise will come out from the speakers, affecting your ears or causing the speakers to be damaged.
- ① This player has a conversion function for converting Dolby® Digital into the LPCM format. This allows playback of CDs with the regular playback system without the need for a special converter.

### ☞ DOWN MIX

#### ☞ LT/RT

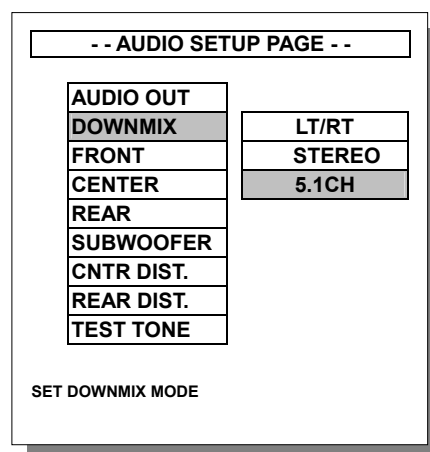
A kind of Dolby Pro-Logic coding formats.

#### ☞ STEREO

Down mixed Stereo L/R audio output.

#### ☞ 5.1 CH

Set to "5.1CH" setting items to enable the 5.1 channels.

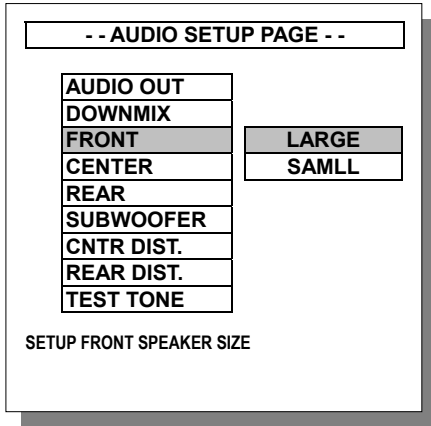


## SOUND EFFECTS AND TEST TONE

There are seven available sound-effect items: They are **FRONT**, **CENTER**, **REAR**, **SUBWOOFER**, **CNTR DIST.**, **REAR DIST.**, and **TEST TONE**:

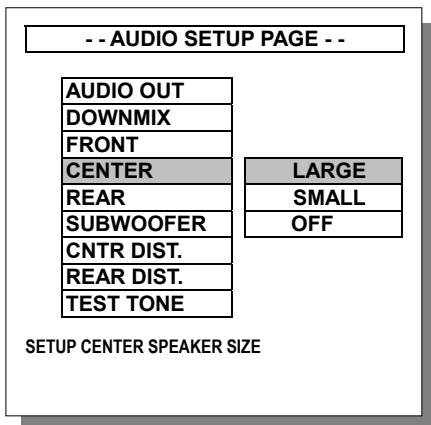
### FRONT

Set Front Speakers size large/small



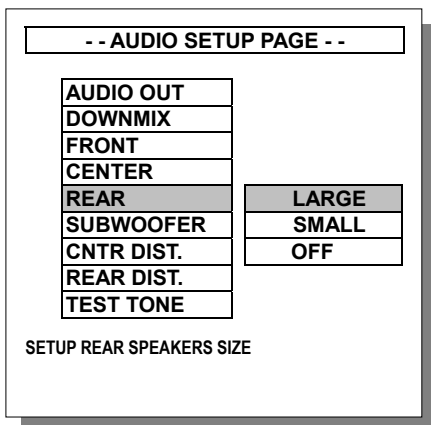
### CENTER

Set Center Speaker size large/small/off.



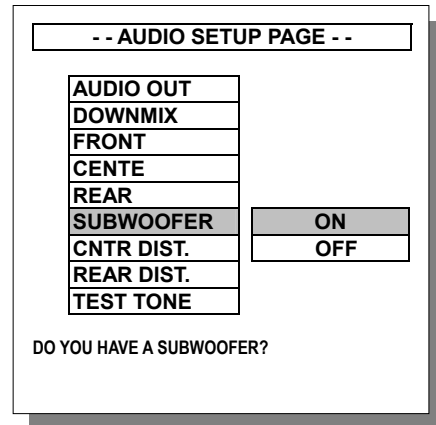
### REAR

Set Rear Speakers size large/small/off.



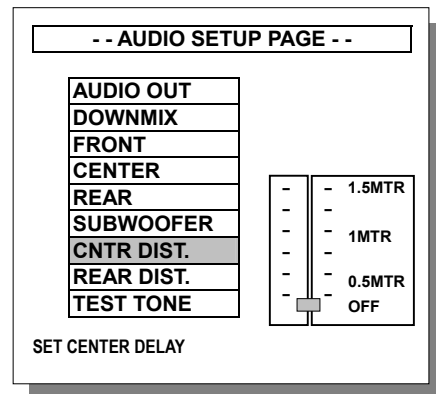
### SUBWOOFER

Set Subwoofer Speaker on/off.



### CNTR DIST

Adjust the delay distance of CENTER speaker.

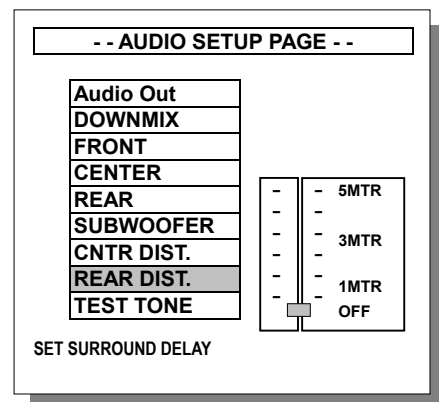


NOTE:

Please set the "CENTER" item to "LARGE" or "SMALL" first.

### REAR DIST:

Adjust the delay distance of REAR speaker.



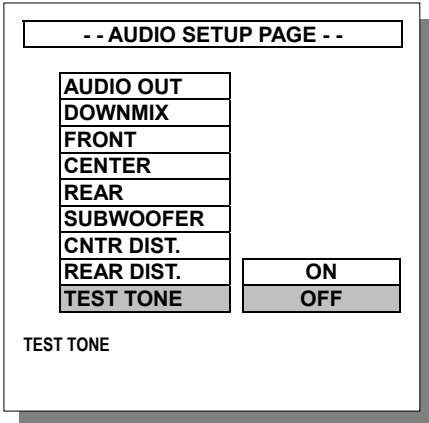
NOTE:

Please set the "REAR" item to "LARGE" or "SMALL" first.

# SOUND EFFECTS AND TEST TONE

## TEST TONE

Test the output ability of left, center, right, right surround, and left surround speakers in sequence.



NOTE:

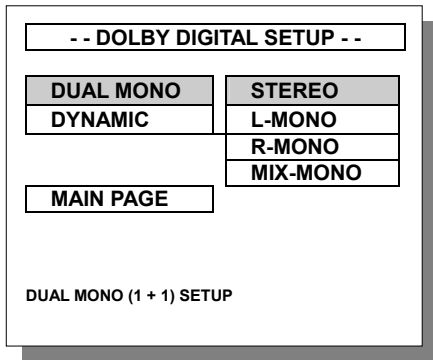
Please set the "DOWNMIX" item to "5.1CH" first.

## DOLBY DIGITAL SETUP

There are two available items: They are **DUAL MONO** and **DYNAMIC**.

### DUAL MONO

There are four available modes: STEREO, L-MONO, R-MONO, and MIX-MONO.

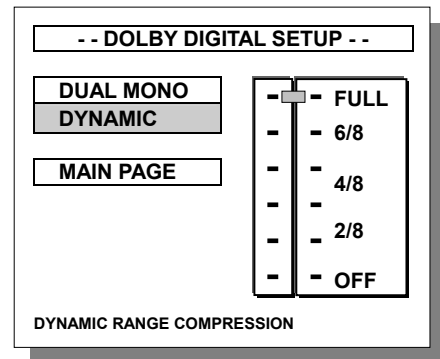


### Audio output description

MODE	LEFT SPEAKER	RIGHT SPEAKER
STEREO	STEREO -L	STEREO -R
L-MONO	L-MONO	L-MONO
R-MONO	R-MONO	R-MONO
MIX-MONO	L-MONO+R-MONO	L-MONO+R-MONO

## DYNAMIC

"Dynamic Range" is the difference between the maximum level and the minimum level of sounds. Sounds on a movie originally designed for movie theaters feature a very wide dynamic range, so sometimes it is not suitable for home use. Depending on the condition of your listening environment, Dynamic Range function can reduce the instant sound effect alteration of the movie while playing back. When seeing movies in the night, turn this function on to avoid the suddenly loud sound to influence your neighbors. (Default value is FULL, no compression to be done.)

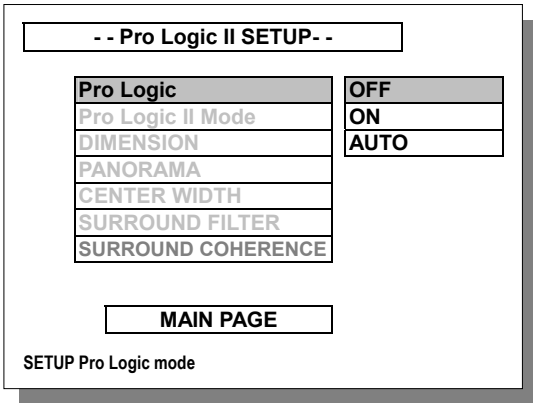


NOTES:

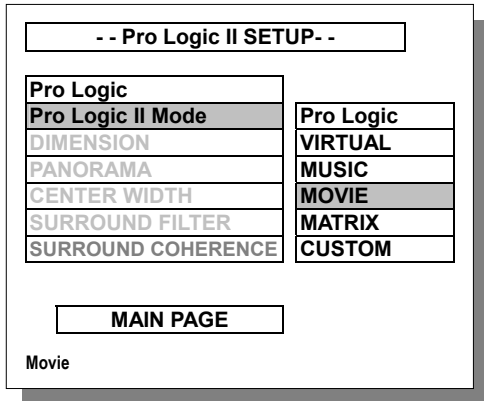
- This function works only during playback of Dolby Digital recorded discs.
- The level of Dynamic Range Reduction may differ depending on the DVD discs.

# Pro Logic II SETUP

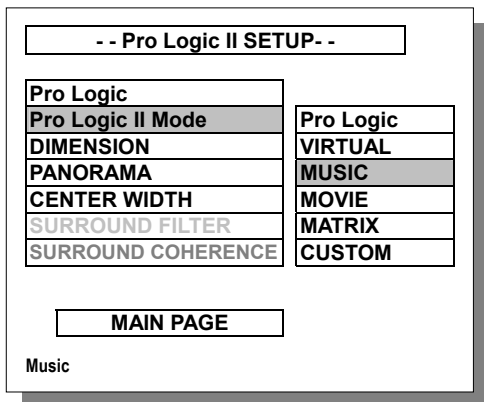
There are three available items: They are Pro Logic **OFF**, **ON** and **AUTO**.



Set to **ON** to enable Pro Logic II Mode. There are six available items: They are Pro Logic, VIRTUAL, MUSIC, MOVIE, MATRIX, and CUSTOM.



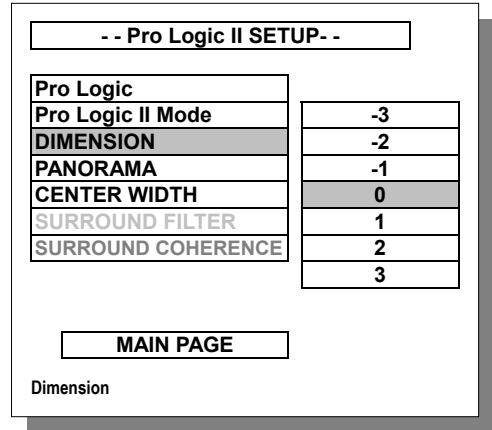
Set to **MUSIC** mode to enable three available items: They are DIMENSION, PANORAMA, and CENTER WIDTH.



## DIMENSION

Dimension: -3, -2, -1, 0, 1, 2, 3:

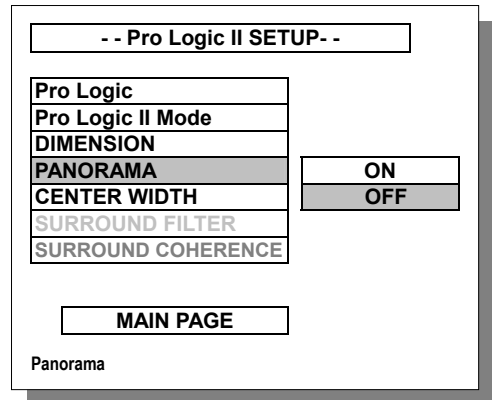
Dimension control. Allows the user to gradually adjust the soundfield either towards the front or towards the rear. This can be useful to help achieve a more suitable balance from all the speakers with certain recording.



## PANORAMA

Panorama: ON/OFF:

Panorama mode. Extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with sidewall imaging.

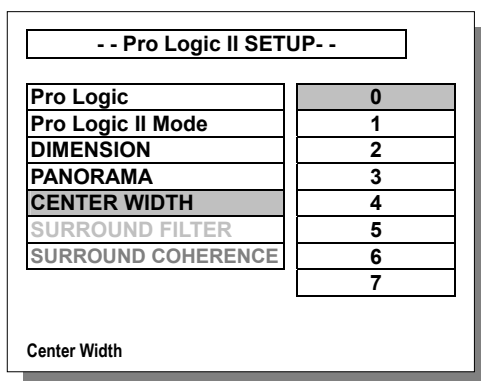


## Pro Logic II SETUP

### CENTER WIDTH

Center Width: 0, 1, 2, 3, 4, 5, 6, 7:

Center Width control. Allows variable adjustment of the center image so it may be heard only from the center speaker, only from the left/right speakers as a “phantom” center image, or various combinations of all three front speakers. With this control it is possible it create a balanced left-center-right stage presentation for both the driver and the front passenger. For home users, it allows improved blending of the center and main speakers, or to control the sense of image width, or “weight”.

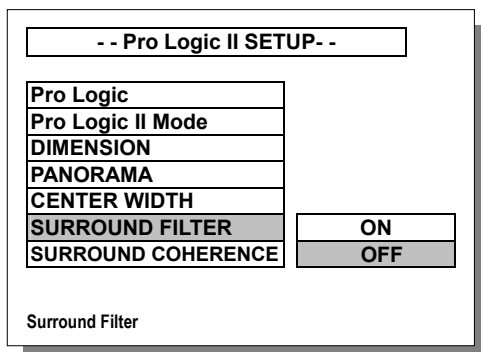


Set to **CUSTOM** mode to enable five available items: They are DIMENSION, PANORAMA, CENTER WIDTH, SURROUND FILTER and SURROUND COHERENCE.

The functions of the three (Dimension, Panorama, Center Width) are same in Music mode.

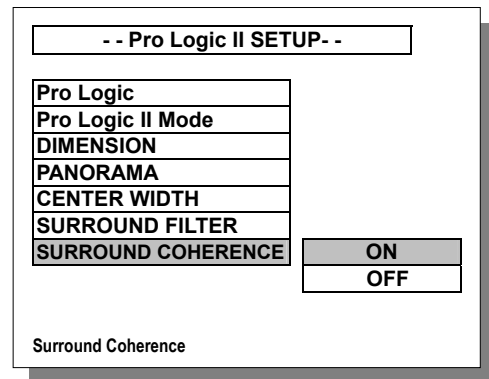
### Surround Filter

Surround Filter: ON/OFF.



### SURROUND COHERENCE

Surround Coherence: ON/OFF.



NOTE:

Press  or  button following the direction of the cursor on the screen to do setting in one more menu page.

## LPCM SETUP

This option sets the audio output format sent using the unit's optical digital audio output.

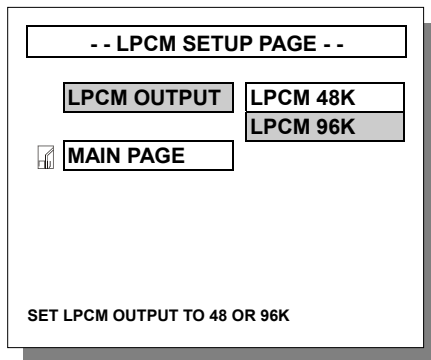
### Linear PCM OUT

#### LPCM 48K

In the Linear PCM setting, "48K" means "the digital audio output maximum sampling rate is 48kHz"; therefore, when the title's encoding sampling rate\* is 96kHz, the output will be forced converted to 48kHz.

#### LPCM 96K

If "96K" is selected, then the maximum output-sampling rate is 96kHz and no conversion will take place.



#### NOTES:

① Sampling rate:

When a sound wave is converted to a digital signal, the sound is sampled and converted to data at a specific frequency rate. For example, a signal with a 96 kHz sampling rate indicates that in one second, the analog signal was sampled 96000 times to produce the digital signal.

① In LPCM set-up menu, there will be a case that even when "LPCM 96K" is selected, output signal is converted to 48kHz if the disc has the copy guard management system in it.

#### DISC CODING AND OUTPUT FORMAT

Disc	Audio encoding format	Digital output format
DVD	Dolby Digital®	Dolby Digital Bit stream (1~5.1 ch) or 48kHz/16bits 2ch Linear PCM
	DTS®	Bit stream (1~5.1 ch) or OFF
	Linear PCM (48/96kHz, 24bits)	Linear PCM (48kHz/16 bits up to 96kHz/24bits)
Video CD	MPEG 1	Linear PCM (44.1kHz sampling)
Audio CD	Linear PCM	Linear PCM (44.1kHz/16bit)

## GENERAL SETUP

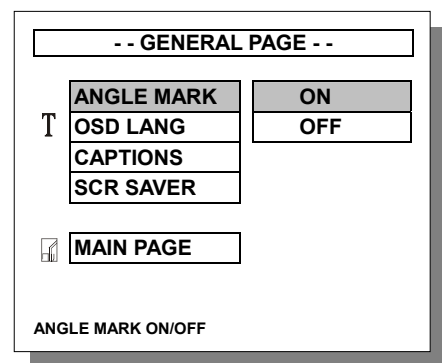
There are four available selections: **ANGLE MARK**, **OSD LANG**, **CAPTIONS**, and **SCR SAVER**.

### ANGLE MARK

During playback of a title with multiple angle sections, the message " " will appear on the upper corner of the screen.

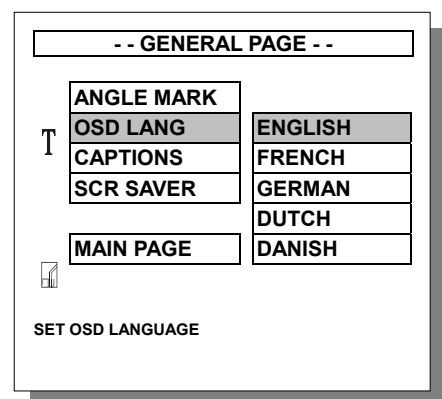
When ANGLE MARK is set to "ON", the angle mark OSD will stay on the screen until the end of the playback title or chapter.

When ANGLE MARK is set to "OFF", the angle mark OSD will stay on the screen for 3 sec and then disappear.



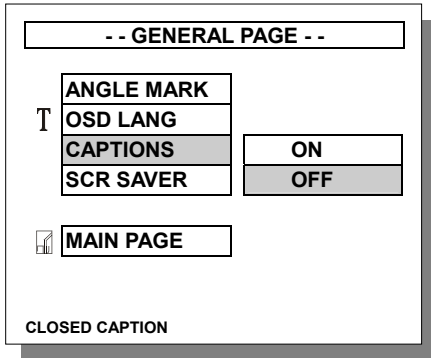
### OSD LANGUAGE

You can select the language for the setup menu or the operation message display. There are five available OSD languages: ENGLISH, FRENCH, GERMAN, DUTCH and DANISH for display.



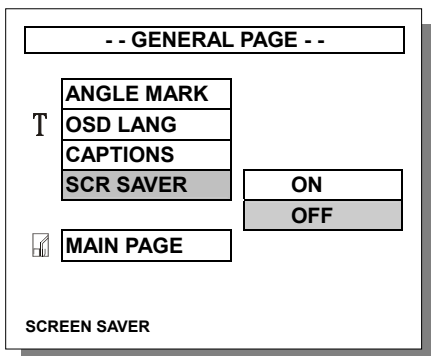
## ☞ CAPTIONS

Closed Caption (CC) is a standardized method of encoding text into an NTSC television signal. A TV can display the text with a built-in decoder. Closed Caption can be carried on DVD. If a DVD title contains a **CC** mark on the rear of the DVD disc's box, then you can set "CAPTIONS" to "ON" and read written captions on the TV screen. Default is set to "OFF".



## ☞ SCREEN SAVER

When this DVD player is idle (after about 5 minutes of inactivity), the screen saver can be activated to prolong the TV monitor's life.



### NOTE:

- ⓘ Caution: The DVD player can hold a still video image or OSD image on your television screen indefinitely. If you leave the still video image or OSD image displayed on your TV for a very long time. It may cause the permanent damage to your TV screen.

## PREFERENCES

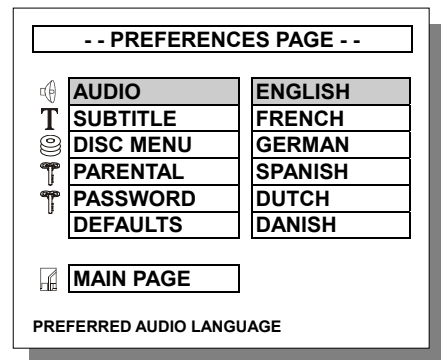
Preferences allow you to set the default **AUDIO**, **SUBTITLE**, **DISC MENU**, **PARENTAL**, **PASSWORD**, and factory **DEFAULTS** of this player. This setting is only available when the DVD player is in the STOP mode by pressing the **■/||** button thrice.

### NOTE:

- ⓘ Pressing the **■/||** button once only pause the playback, to pre-stop it after pressing **■/||** button twice and to stop the playback completely by pressing **■/||** thrice.

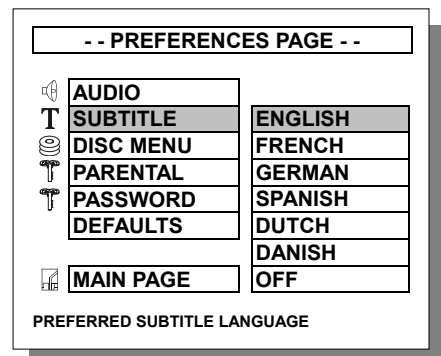
## ☞ AUDIO

This unit supports six audio selections, as shown below, for your preferred audio setting.



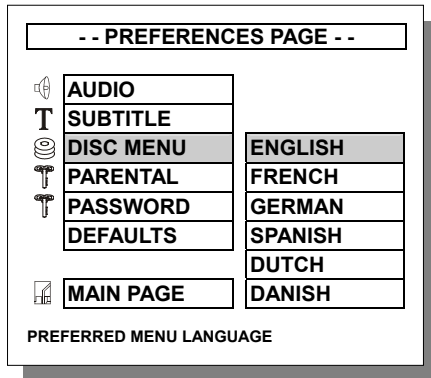
## ☞ SUBTITLE

This unit supports six subtitle selections, as shown below, for your preferred default subtitle setting. When "OFF" is selected, there will be no subtitle is displayed during playback.



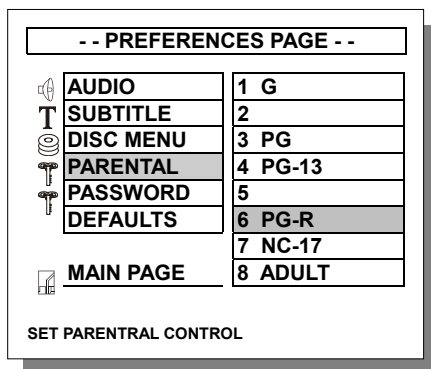
## DISC MENU

This unit supports six DISC MENU languages.

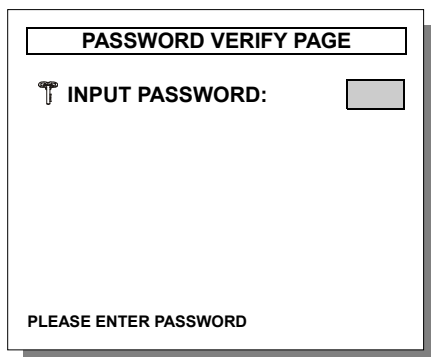


## PARENTAL

Functions to limit the playback of some discs that contain mature scenes. The limitation varies from disc to disc; when it is activated, playback is completely prohibited. There are eight levels of parental setting of this unit.



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

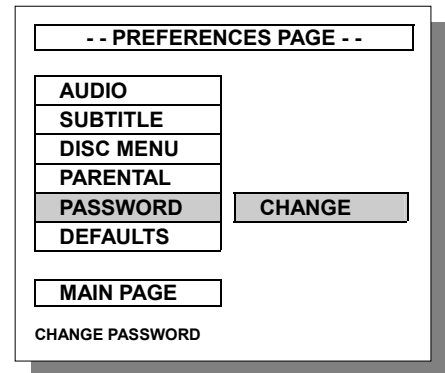


NOTE:

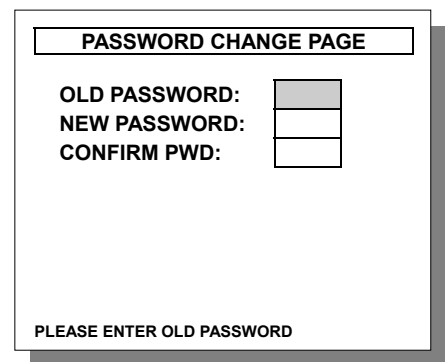
- ① Use "3308" to override the forgotten password and re-enter a new password.

## PASSWORD

The password is a 4-digit number. When you want to change the password, select "CHANGE" as shown below.



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

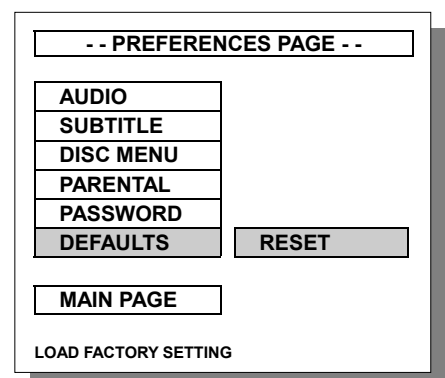


NOTES:

- ➡ The default password number is "3308".

## DEFAULTS

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





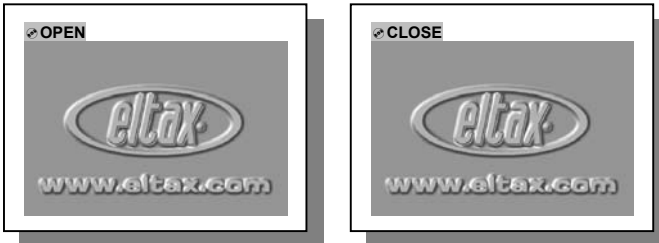
# ON-SCREEN DISPLAY (OSD)

## DVD OSD Modes

There are two OSD display modes available when playing a DVD disc.

### Mode 1

Shows the status of the pressed button and some special messages are displayed on the screen. For example, when the **OPEN/CLOSE** button is pressed, the OSD shows:

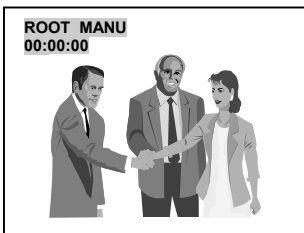


### Mode 2

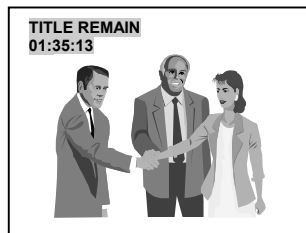
Shows the playback information of a movie or title.

When pressing the **DISPLAY** button on R/C, the information OSD will display on the screen in the sequence as shown below:

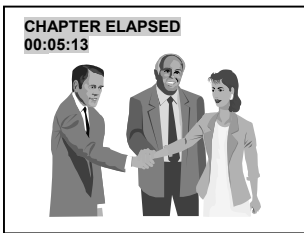
1<sup>st</sup> time



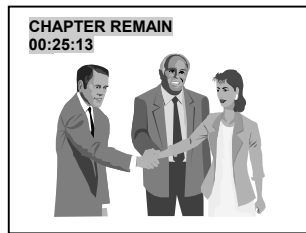
2<sup>nd</sup> time



3<sup>rd</sup> time



4<sup>th</sup> time



When pressing the **DISPLAY** button on the remote control again, it will turn off the OSD.

## Audio CD/VCD OSD Modes

There are two OSD display modes available when playing a SVCD, VCD, and Audio CD disc.

### Mode 1

Shows the status of the pressed button and some special messages are displayed on the screen as previous description.

### Mode 2

Shows the playback time information of a disc.

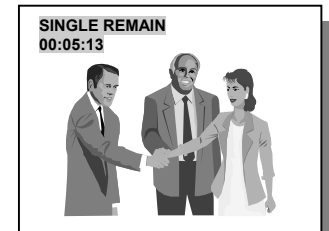
#### PBC ON (VCD 2.0 above only):

When pressing the **DISPLAY** button on R/C, the information OSD will display on the screen in the sequence as shown below:

##### 1. SINGLE ELAPSED



##### 2. SINGLE REMAIN



#### PBC OFF or Audio CD playback:

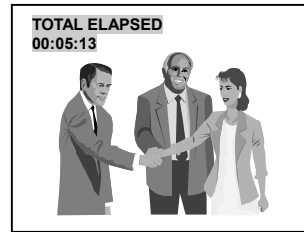
##### 1. SINGLE ELAPSED



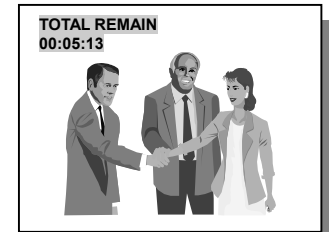
##### 2. SINGLE REMAIN



##### 3. TOTAL ELAPSED



##### 4. TOTAL REMAIN



When pressing the **DISPLAY** button on the remote control again, it will turn off the OSD.

# BASIC OPERATION OF PLAYBACK

Preparation:

- ☞ If a television set is used, turn on its power and set the TV/Video switch to the right channel.
- ☞ If a sound system is used, turn on the amplifier first and make sure its outputs are set properly.

## START Playback

1. Press the **POWER** button to turn on the DVD player.
2. Press the **OPEN/CLOSE** button to open the disc tray.
3. Place a disc onto the tray and make sure that it is placed squarely on the tray.
4. Press the **OPEN/CLOSE** or **ENTER/PLAY** button to play the disc.

NOTES:

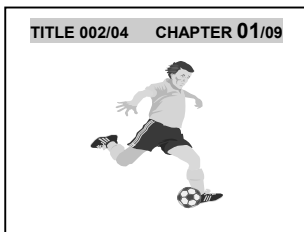
- ① When using a DVD disc, some menu selections and some DVD playback functions are available during playback.
- ① When using a VCD disc with PBC, the PBC menu will be displayed on the screen. You can use the PBC menu, or press the PBC button to set PBC off and the disc will play immediately.
- ① For a VCD disc without PBC or an Audio CD, the disc will be played immediately.

## SKIP Playback

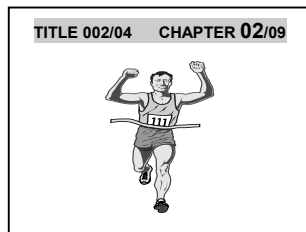
### ☞ DVD Playback

- ☞ Press the **▶▶** (NEXT) button to skip to the next chapter.

Before pressing **▶▶** button

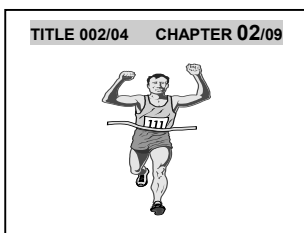


After pressing **▶▶** button

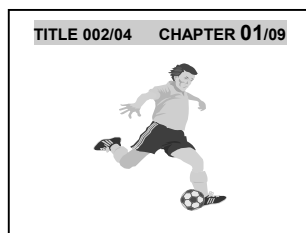


- ☞ Press the **◀◀** (PREV) button to skip to the beginning of the current chapter or previous chapter.

Before pressing **◀◀** button



After pressing **◀◀** button



### ☞ VCD/Audio CD Playback

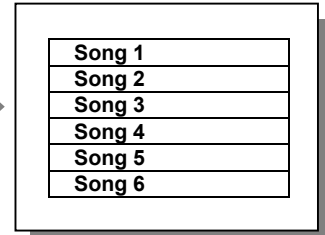
- ☞ PBC ON (VCD 2.0 above only):

Press the **▶▶** (NEXT) or **◀◀** (PREV) button will go back to the PBC menu or the beginning of the song playing.

PLAYING



VCD PBC MENU



- ☞ PBC OFF or Audio CD

Press the **▶▶** (NEXT) or **◀◀** (PREV) button will skip to the next or previous track of VCD or Audio CD.



PREVIOUS





NEXT

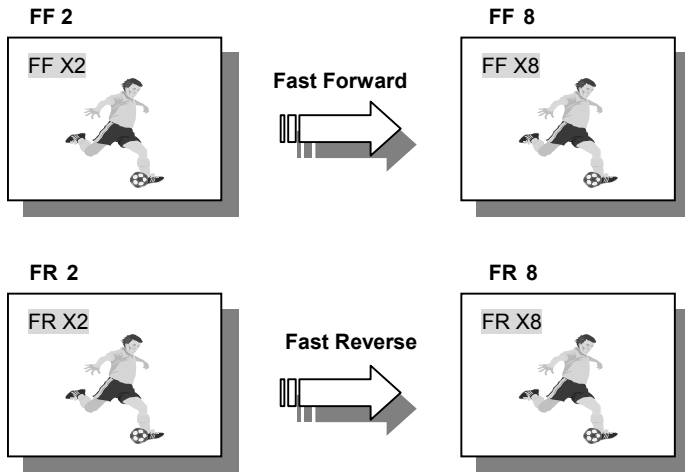


## FAST FORWARD/REVERSE SCAN

Using the  (FF) and  (FR) buttons to fast forward and reverse scan.



### DVD Playback

When the  or  button is pressed, the speed of playback changes in cycles of 2→4→6→8→ Play →2



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

### VCD/Audio CD Playback

When the  or  button is pressed, the speed of playback changes in cycles of 2→4→6→8→ Play →2. (Similar as DVD Playback)

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

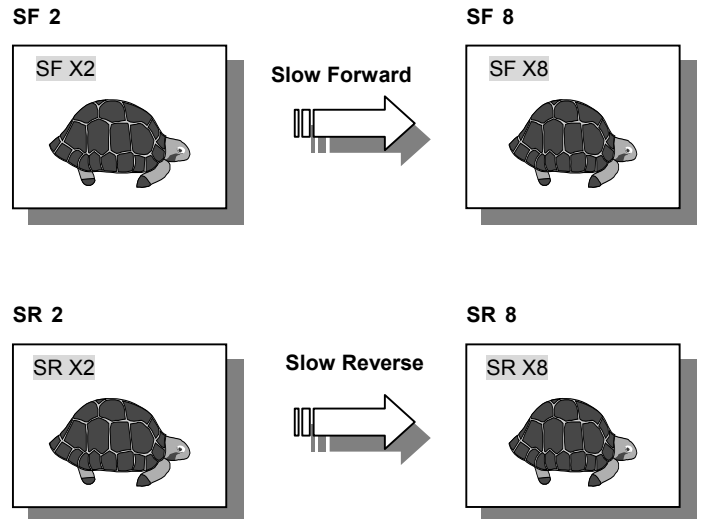
#### NOTES:

- ① It is normal that video image may seem discontinuous during fast forward/reverse scan.
- ① When the fast forward scan reaches the end of a track (Audio CD/VCD) or a title (DVD), normal playback of the next track/title will be resumed.
- ① When the fast reverse scan reaches the beginning of a track (Audio CD/VCD) or a title (DVD), the normal playback of the track/title will be resumed.

## SLOW-MOTION Playback

### DVD Playback

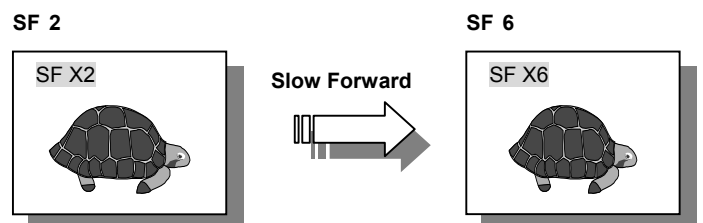
When the **SLOW** button is pressed, the speed of playback changes in cycles of slow forward 2→4→8→slow reverse 2→4→8→PLAY→ slow forward 2.



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

### VCD Playback

When the **SLOW** button is pressed, the speed of playback changes in cycles of slow forward 2→4→6→PLAY→ slow forward 2.



When the **ENTER/PLAY** button is pressed during slow forward scan, normal playback will be resumed.

#### NOTE:

- ① During slow-motion play, you will not be able to hear the audio portion of the track.

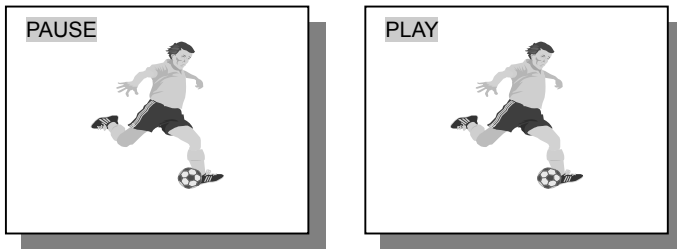
## PAUSE/STOP Playback

### DVD Playback

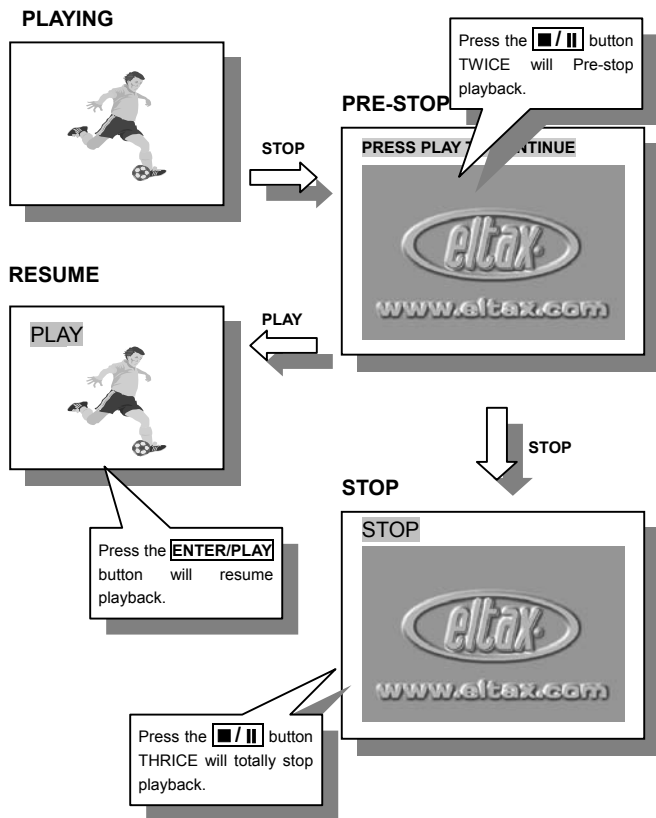
#### Pause/Play

Pressing the **■/||** button to freeze the image.

Press the **ENTER/PLAY** button to return to normal play.



Pressing the **■/||** button twice only pre-stop the playback. You must press the **■/||** button thrice to full stop the playback.



#### NOTE:

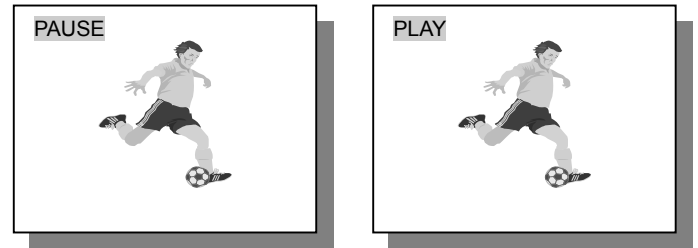
- ① When the unit is not in use, please remove the disc and press the **POWER** button to turn off DVD player.

### VCD/Audio CD Playback

#### PBC ON (VCD 2.0 above only):

Pressing the **■/||** button once to freeze the image.

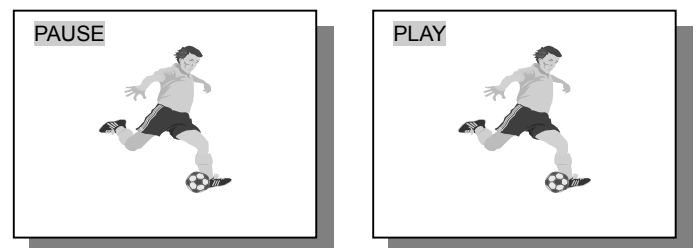
Press the **ENTER/PLAY** button to return to normal play.



#### PBC OFF or Audio CD

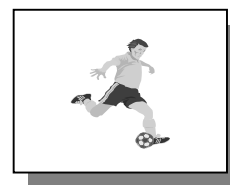
Pressing the **■/||** button once to freeze the image.

Press the **ENTER/PLAY** button to return to normal play.



Pressing **■/||** button twice will stop playback during PBC off or Audio CD playback.

#### PLAYING (VCD)



#### STOP



#### PLAYING (Audio CD)



#### STOP



# ADVANCED OPERATION OF PLAYBACK

## REPEATED Playback

### ☞ TITLE/CHAPTER Repeat

When the **REPEAT** button is pressed, the repeated playback is triggered and the OSD message is changed in cycles of “CHAPTER REPEAT ON”, “TITLE REPEAT ON”, and “REPEAT OFF.”

### ☞ CHAPTER REPEAT

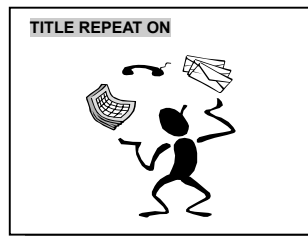
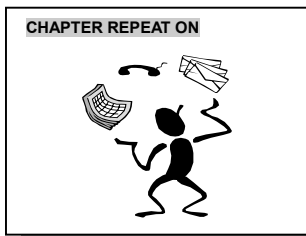
Enables the repeated playback of a chapter for a DVD disc or track for an Audio CD disc or a VCD disc.

### ☞ TITLE REPEAT

Enables the repeated playback of a title for a DVD disc or a disc for an Audio CD disc or a VCD disc.

### ☞ REPEAT OFF

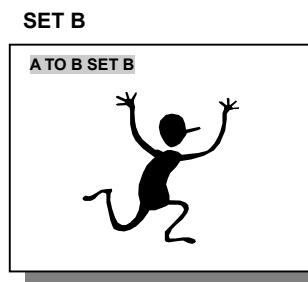
Resumes normal play.



### ☞ A-B Repeat

You are able to perform a repeated playback between any two points of a track or a chapter.

1. Press the **A-B** button during playback to set the beginning point (A). The OSD message “A TO B SET A” will be shown on the right lower screen corner.
2. Press the **A-B** button again to set the end point (B). The OSD message “A TO B SET B” will be shown. In the meantime, the repeated playback begins between the two points, A and B.
3. Pressing the **A-B** button again resumes normal play. The OSD message “A TO B CANCELLED” will be shown.

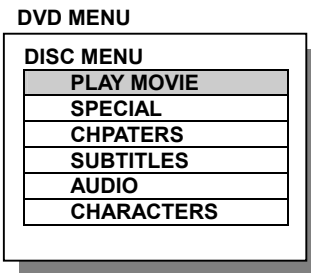


## DVD MENU (DVD ONLY)

### ☞ DVD Playback

Some DVDs have complex contents such as multi-subtitle, multi-audio, or multi-angle. In these cases, you may use the DVD menu to select audio language, subtitle language, and angle.

1. Press the **DVD MENU** button during playback to display the DVD menu, if it is available on the disc.
2. Use the **◀ ▶ ▲ ▼** buttons to control the direction and press the **ENTER/PLAY** button to select the preferred item. Or you can directly press the numeric buttons to select the item.
3. Pressing the **ENTER/PLAY** button resumes the playback of the scene when the **DVD MENU** button was first pressed.



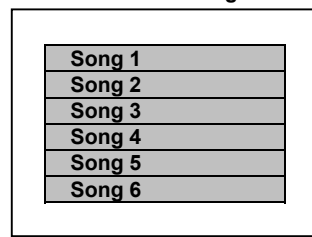
## VCD PLAYBACK CONTROL (PBC)

### ☞ VCD Playback

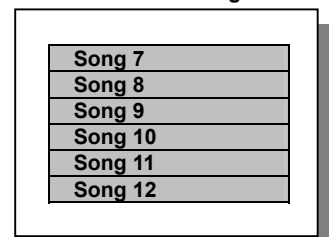
This function is only available for Video-CD version 2.0 or higher. The PBC operation may differ by disc, therefore, refer to the instructions for each disc.

- ☞ Press the **DVD MENU** button to switch on/off the PBC function. The OSD message “PBC ON” or “PBC OFF” will be displayed.
- ☞ 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 available.

VCD PBC MENU Page 1



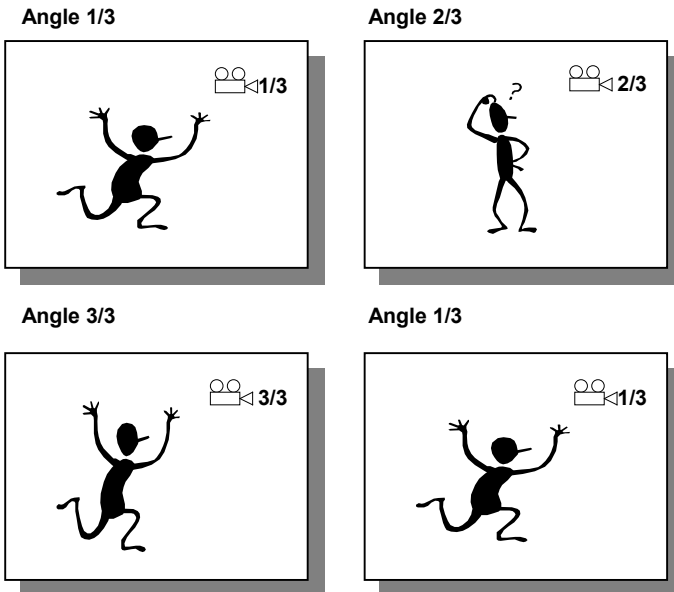
VCD PBC MENU Page 2



## MULTI-ANGLE Playback

Some DVD discs may contain scenes with a number of different angle views. Whenever a scene with multiple angle views is played, you can use the **ANGLE** button to view this scene from different angles.

- ☞ The OSD icon "📹" will appear on the screen during the playback of a scene with multi-angle views.
- ☞ When the **ANGLE** button is pressed, the angle for playback will change in cycles among the available angle numbers.



NOTE:

- ① The "ANGLE MARK" in the initial setting must be set to "ON."

## Changing SUBTITLE During Playback

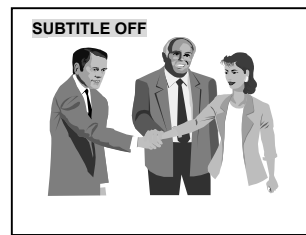
During playback of a DVD disc with more than two subtitle languages, you can change the subtitle or disable the subtitle by pressing the **SUBTITLE** button.

- ☞ When the **SUBTITLE** button is pressed, the subtitle for playback will change in cycles among the available subtitle numbers and "OFF" status. "OFF" will disable the subtitle display.

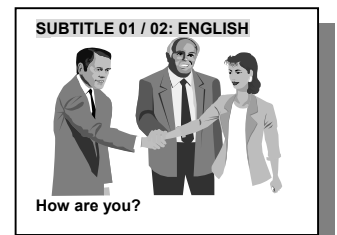
The OSD message will show the current subtitle number. If no selection is made, this OSD message will disappear after 3 seconds.



Subtitle Off



English Subtitle



NOTES:

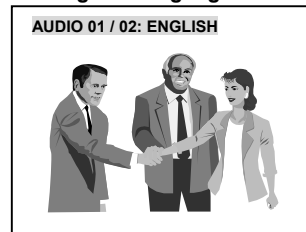
- ① Sometimes the subtitle language can only be changed in DVD menu instead of during playback.
- ① The number of available subtitle language is depending on the disc.

## Changing AUDIO LANGUAGE During Playback

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

- ☞ When the **AUDIO** button is pressed, the audio / language for playback will change in cycles among the available audio/language numbers.
- ☞ The OSD message will show the current subtitle number. If no selection is made, this OSD message will disappear after 3 seconds.

English Language



Chinese Language



NOTES:

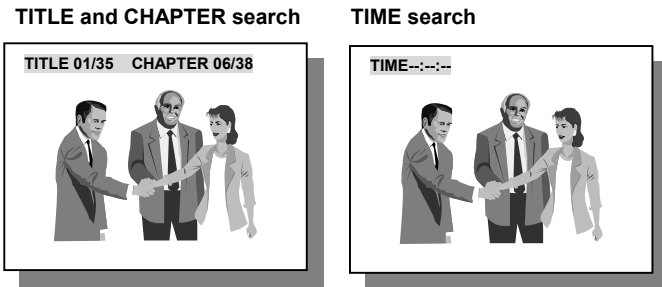
- ① Sometimes the audio language can only be changed in DVD menu instead of during playback.
- ① The number of available audio language is depending on the disc.

## GOTO Function

Under the search mode, specific title, chapter, or time can be located for immediate playback.

### DVD Search Functions

During a DVD playback, pressing the **GOTO** button can enable the search function. The OSD will show three search methods after pressing **GOTO** button one time and two times.



The “TITLE 01/35” indicates that the player is currently playing title no. 1 of 35 titles. The “CHAPTER 06/38” indicates that the player is currently playing chapter 6 of 38 chapters. The “TIME 00:20:12” indicates that the current playback time is 20 minutes and 12 seconds into the playback.

To search by title, use the **◀ ▶ ▲ ▼** buttons to highlight the first two digits of the “TITLE nn/nn” section. Once highlighted, use the number keys on the remote to enter the title you want to play. Presses **ENTER/PLAY** to complete your search selection.

To search by chapter, use the **◀ ▶ ▲ ▼** buttons to highlight the first two digits of the “CHAPTER nn/nn” section. Once highlighted, use the number keys on the remote to enter the chapter you want to play. Presses **ENTER/PLAY** to complete your search selection.

To search by time, use the **◀ ▶ ▲ ▼** buttons to highlight the “TIME nn:nn:nn” section. Once highlighted, use the number keys on the remote to enter the time frame from which you want to play. Presses **ENTER/PLAY** to complete your search selection.

### VCD/Audio CD DIRECT Functions

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

1. Pressing the **GOTO** button during play will display the OSD for VCD/Audio CD search.
2. When the time is set, play from this position will start immediately.

VCD Search



Audio CD Search



NOTE:

- ① Audio CD playback’s background is start up logo.

### Digit Buttons

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

## Input Switch Function

1. Press the **■/||** button thrice for full stop.
2. Press the **INPUT** button to switch between AUX-INPUT, TV, VCR, TUNER and DVD mode. (Also shown on the VFD.)

AUX→TV→VCR→TUNER→DVD→AUX

NOTES:

- ① AUX mode refers to P.12 **Video In and Audio IN Terminals and Connections**.
- ① TV mode refers to P.11 **SCART Terminal**. The sound of TV program will appear from the amplifier.
- ① VCR mode refers to P.12 **SCART Terminal** mode.
- ① TUNER mode refers to P.29 **TUNING OPERATION**.

# Digital Tuner with RDS PS Function/Amplifier System

## TUNING OPERATION

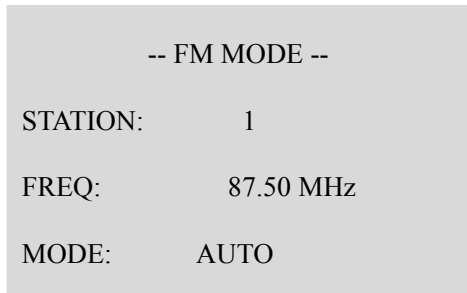
After power-on, the machine will be at the DVD mode with the AMP default setting. If you want to enjoy the Tuner you can, when a DVD disc loaded on the disc tray, press the **■/||** button on the remote control thrice to stop the DVD Player, and then you press the **INPUT** button on remote control four times to switch Tuner mode.

### NOTES:

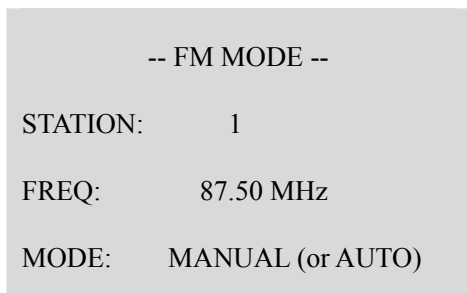
- ① When a VCD 2.0ver. disc loaded on the disc tray, you must press **DVD MENU** button once to switch off the PBC function, then press **■/||** button twice to stop the DVD Player.
- ① When a VCD1.0ver. CDDA or MP3 disc loaded on the disc tray, you can otherwise press **■/||** twice to stop the DVD Player.

### FM tuning and saving

Press **INPUT** button on the remote control to convert the DVD player mode into Tuner Mode and the OSD appears:

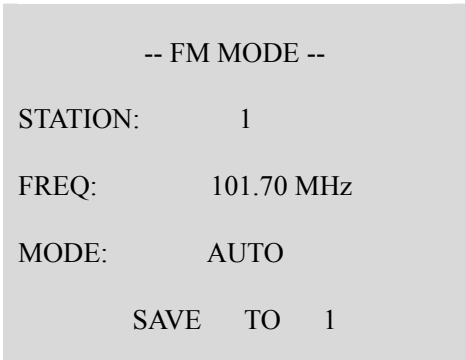


Press **SUBTITLE** button on remote to convert between auto and manual mode. The OSD appears:



Under AUTO mode, press **▶▶** (FF) or **◀◀** (FR) to search up to higher frequencies or downward to lower frequencies, up to 20 frequencies broadcasting can be tuned in and kept in correspondence with the digitals 1 to 20.

When the **■/||** pressed, the searching stops. Once one frequency is spotted, OSD appears e.g.:



It also appears on the VFD:



Each time one frequency is spotted there will be 3 seconds program broadcasting from it, and then the searching goes on to the next frequency searching until the digitals 1 to 20 used up.

Under MANUAL mode, press **▶▶** (FF) or **◀◀** (FR) to tune in up to a higher frequency or downward to a lower frequency, up to 20 frequencies broadcasting can be tuned in and kept in correspondence with the digitals 1 to 20. Each time one frequency is going to be spotted, the OSD appears e.g.:





```

-- FM MODE --
STATION:      1
FREQ:         101.70 MHz
MODE:         MANUAL
INPUT STATION

```

It also appears on the VFD:

```

INPUT

```

When the digit 1 pressed, OSD appears:

```

--- TUNER MENU ---

```

```

-- FM MODE --
STATION:      1
FREQ:         101.70 MHz
MODE:         MANUAL
SAVE TO 1

```

Also the VFD appears:

```

SAVE TO 1

```

After a while, OSD appears:

```

-- FM MODE --
STATION:      1
FREQ:         101.70 MHz
MODE:         MANUAL

```

And VFD appears:

```

FM 1 101.7 M

```

- ☞ Press **▶▶** again the FREQ goes up higher frequency.
- ☞ The program of the frequency spotted goes to broadcast. With the same way above go on to do the next frequency searching. To get an optimum of receiving broadcast you can press **◀** or **▶** for a fine frequency adjustment of the program broadcasting, and the result of which can be kept by pressing **ENTER/PLAY** on the remote control.

After saving you can run any digit of 1~20, in each of which one FREQ frequency broadcasting has been saved, to listen to the broadcast of the FM frequencies corresponding with what you have ever saved.

- ☞ Press **▶▶** (NEXT) or **◀◀** (PREVIOUS) turns in next higher or previous lower FREQ station.

NOTES:

- ① You can save up to 20 frequencies.
- ① Machine will save the frequencies for later use.
- ① VFD of the machine will display the saved message being played when the TUNER is on.
- ① The FM frequency range: 87.5 – 108MHz  
Frequency-step = 50KHz
- ① For a good reception the FM antenna is required and that have to be put in an optimum location.

## RDS PS FUNCTION (Radio Data System Program Service station name)

The name of the RDS station now being received instead of the frequency will display on the VFD.

e.g.: BBC R3

NOTE:

- ① This function can be used under Tuner mode only.

## AMP Volume up/down Adjustment

☞ Press the **AMP VOL** button on the remote control, TV OSD appears:

ALL  05

☞ Press **AMP VOL** twice, OSD Appears:

LF  05

Press **AMP VOL** thrice to seven times the OSD converts in turn of RF, LS, RS, CN and SW;

RF  05

LS  05

RS  05

CN  05

SW  05

☞ Press **AMP VOL** continually it goes in cycle.

☞ Press the **VOL+** or **VOL-** button on the remote control to change the Volume value of ALL, LF, RF, LS, RS, CN or SW separately.

### NOTES:

- ① You can adjust the Volume, either, by turning the Volume knob in the front panel of the machine.
- ① The volume will automatically step up/down when the remote button is pushed down for longer time.
- ① After powering off the player and to turn on again, the player will keep the volume of last setting.

## Working with JPEG Files

### What is a JPEG?

JPEG is short for the 'Joint Photographic Experts Group', a group of experts nominated to produce standards for continuous tone image coding. The best known standard from JPEG is 10918-1 (ITU-T T.81), which is the first of a multi-part set of standards for still image compression. This allows you to create files (such as photographs, drawings, and most clip-art) that can be archived on a CD-R for viewing on the AD-1600/1700M, computer, or the web.

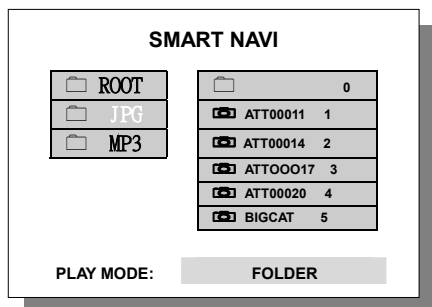
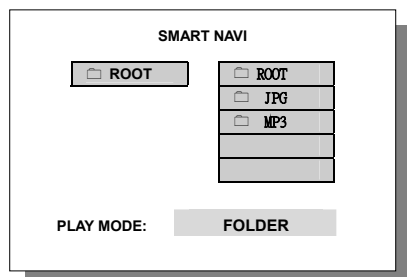
### WHAT IS PICTURE CD?

This DVD player provides with the ability to playback most JPEG files, that are commonly used for digital cameras, and KODAK Picture CDs to view your photos on a television in the comfort of your home from a CD-R!

## PLAYING YOUR JPEG FILES

### Normal Slide Show Presentation

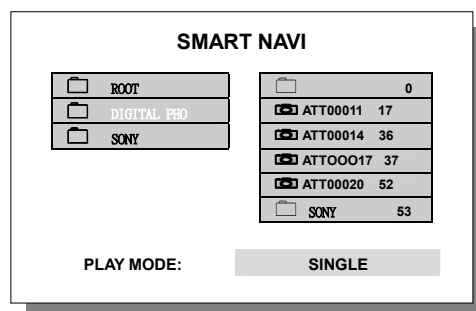
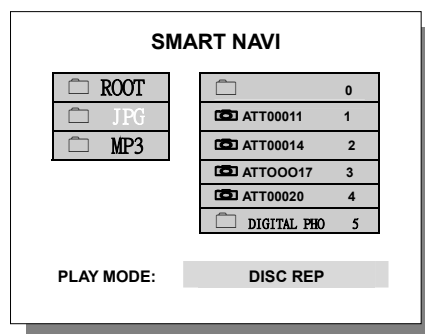
When a JPEG disc is loaded into the player, a menu will appear on screen. From the **Play Mode** shown on the menu, select the "FOLDER" option using your direction keys. Each picture in the current directory will be displayed consecutively in a slideshow presentation and will be seated to the most of your TV screen. Nine slideshow "transition" modes are provided. Use **DVD MENU** button to select.



Use numeric keys to designate the number of the picture, from which the photos showing go on in the PLAY MODE accordingly.

### CHANGE THE PLAY MODE PLAYING

Press **▶** to enter the PLAY MODE selection and press **▼** or **▲** for selection of the play modes of REP-ONE, SINGLE, FOLDER, FOLDER REP, DISC SCAN, DISC, DISC REP, in sequence. And press **◀** back to Photo selection.



Note: From the play-mode shown on the menu you may also select the "SINGLE" option to view a picture indefinitely until **▶▶** (NEXT), **◀◀** (PREV), or **ENTER/PLAY** buttons is selected.

### IMAGE ROTATION

There are four modes to rotate a picture: **Invert**, **Mirror**, **Left**, and **Right**. These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The arrow key are used to select the different rotation modes:

Up **▲** -Invert/Normal    Down **▼** -Mirror/Normal

Left **◀** -Turn left    Right **▶** -Turn right

## ZOOM

This feature allows you to view a picture at the increments of 25% to 200%. Press the **ZOOM** button. An on screen message (“Zoom On”) will verify your selection. Use **▶▶** (FF) and **◀◀** (FR) buttons to control the amount of zoom in and out. Press the direction keys to move the picture in any direction. With “Zoom Off”, the picture is scaled to fit most of your TV screen.

Note: When in the ZOOM mode, the slideshow transition and image transformation features are disabled.

## MENU

The **DVD MENU** key is used to display nine pieces of thumbnail picture. From the stop position, press the **DVD MENU** button. After it is enabled, up to nine scaled-down thumbnails pictures will be displayed on the screen. The **▶▶** (NEXT) and **◀◀** (PREV) buttons can be used to display the next and previous nine pictures in the current directory. Each of the nine pictures is numbered from 1-9. By pressing a number key, the corresponding picture will be enlarged to fill most of your TV screen and the digest mode will be cancelled.

## ■ MP3 Compatible Format

### Start Playback

1. Place MP3 files recorded disc into the DVD player, then it will enter the menu of the disc automatically.

Note:

There will be no second menu if all the contents of the songs are recorded in the Root menu.

2. Please use **◀ ▶ ▲ ▼** arrow buttons for movement to select a track (song) and press **ENTER/PLAY** button to play.

### Song Selection

☞ Direct select with numeral keys

Press the numeral button directly from **0** to **9** and **+10** to select the song what you want.

EX: If you want to select #25 song, you have to press **+10** button twice and then press **5** button.

☞ Direct select with navigation keys

Under stop status, you can use **◀ ▶ ▲ ▼** arrow buttons for movement to select a title/song, then press **ENTER/PLAY** button to confirm.

### Fast Forward/Reverse Scan

☞ Under the status of playback, you can use the **▶▶** (FF) and **◀◀** (FR) buttons to fast forward and reverse scan.

☞ When the **▶▶** (FF) or **◀◀** (FR) button is pressed, the speed of playback changes in cycles of 2→4→6→8→

PLAY→ 2...

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

### Skip Playback

☞ Under the status of playback, you can use the **▶▶** (NEXT) and **◀◀** (PREV) buttons to skip forward and reverse playback.

### Pause Playback

☞ Pressing the **■/||** button once during playback will pause the playback.

☞ To resume normal play, please press the **ENTER/PLAY** button.

### Stop Playback

☞ Press the **■/||** twice button to stop playback.

NOTES:

- ① Sometimes it will not have menu if all MP3 files are burned in the root directory (no sub-directory existence)
- ① It sometimes takes a long time to load an MP3 disc; during this time no other function (Stop or Eject) can be accessed.
- ① Even if the disc contains several sub directories, only the directory name of the folder where the MP3 files are stored is displayed.

NOTE:

- ① When the unit is not in use, remove the disc and power off the player.

### ■ GLOSSARY

#### ● DTS®

DTS® stands for Digital Theater System. DTS® Digital Surround is an encoded/decoded system, which delivers 5.1 channels of "master quality" 48KHz/20-bit audio sound.

#### ● AC-3 (Dolby® Digital)

A sound system developed by Dolby Laboratories, Inc. that gives movie theatre ambience to audio output when player is connected to a Dolby Digital 5.1 channel processor or amplifier.

#### ● Pro Logic II

Pro Logic II is a matrix decoder. It creates a 5.1- channel experience from a stereo input system. Pro Logic II provides a stable open soundfield – good for music; full-bandwidth stereo surround, 20-20kHz; minimum alteration of the sound.

#### ● MPEG

The word "MPEG" is short for Moving Picture Experts Group. This is an international standard for compression of audio. MPEG1 used on VCDs conforms to up to 2-channel stereo. MPEG 2 used on DVDs conforms to up to 7.1-channel surround. By connecting to an MPEG decoder or an AV amplifier with a built-in MPEG decoder, the MPEG audio of DVD discs recorded in this format can be played.

#### ● Dynamic Range

"Dynamic range" is the difference between the maximum level and the minimum level of sounds. Sounds on a movie originally designed for movie theaters feature a very wide dynamic range, so sometimes it is not suitable for home use. Depending on the condition of your listening environment, Dynamic Range function can reduce the instant sound effect alteration of the movie while playing back. When viewing movies at night, turn this function on to avoid sudden loud sounds from disturbing your neighbors.

#### ● Subtitles

Subtitles are captions of language superimposed on movies, etc. Up to 32 different subtitle languages can be recorded on one DVD disc. The subtitle function can be used to select the language of your choice.

#### ● Closed Captions

Closed Captions (CC) is a standardized method of encoding text into an NTSC television signal. A TV can display the text with a built-in decoder or by a separate decoder. All TVs larger than 13 inches sold in the US since 1993 have Closed Caption decoders. Closed Captions can be carried on DVD, videotape, broadcast TV, cable TV, and so on.

### ■ 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 (The region number can be found on the rear panel of the DVD player), this DVD player will not play the disc. The OSD message "WRONG REGION" will show on the TV screen. This player will play DVD discs made for "ALL" regions. The illustration below shows the regions and corresponding region numbers.

- ① REGION 1 USA & Canada
- ② REGION 2 Europe, Japan, South Africa, Middle East
- ③ REGION 3 Southeast Asia
- ④ REGION 4 Central & South America, Australia, New Zealand
- ⑤ REGION 5 Former Soviet Union, India, Pakistan, Africa
- ⑥ REGION 6 China

### ■ How to change the regional coding!

On the remote control press **OPEN/CLOSE** when the tray is open key in 62818 + region (see above) 0 = Multi region. In rare cases the DVD is blocked so it is unable to be played in multi region DVD-Players. In these cases the regional coding must be set to the region indicated on the software.

### ■ LICENSE

#### "Dolby" License

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

#### DTS License

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

### ■ Warning

- ① **The specifications and design of this product are subject to change without notice, due to improvement.**

## ■ TROUBLE SHOOTING

Before requesting service for this unit, please check the following chart for possible causes and remedies. If the remedies indicated in the chart below do not solve the problem, please consult your dealer for instructions.

Common Symptom	Possible Cause	Remedy
No power	✓ Power cord is not properly connected to the power outlet	✓ Make sure there is a connection between the power cord and the outlet.
Power turn off	✓ Auto power off function	✓ The power is automatically turned off after 20 minutes have elapsed in the stop mode (auto power off function). Turn the power back on.
Disc tray can't close	✓ Disc is not properly placed	✓ Replace the disc properly.
No playback	<ul style="list-style-type: none"> <li>✓ Power is OFF</li> <li>✓ No disc is inserted ("no disc" will be shown on screen).</li> <li>✓ Disc is upside down. ("No disc" is shown on screen).</li> <li>✓ Dirty disk</li> <li>✓ Deformed disk</li> <li>✓ Condensation in unit</li> </ul>	<ul style="list-style-type: none"> <li>✓ Turn the power ON.</li> <li>✓ Insert a disc.</li> <li>✓ Reload disk. The label side should face upward.</li> <li>✓ Clean disc surface.</li> <li>✓ Replace disc.</li> <li>✓ Turn power on for 1-2 hours before using the unit.</li> </ul>
Unwanted mosaic-like garbage display during playback	<ul style="list-style-type: none"> <li>✓ Poor disc</li> <li>✓ Video CD (MPEG1)</li> </ul>	<ul style="list-style-type: none"> <li>✓ Replace disc</li> <li>✓ Playback with DVD format</li> </ul>
No audio	<ul style="list-style-type: none"> <li>✓ Slow or fast playback</li> <li>✓ Audio terminals are not connected.</li> <li>✓ TV volume is too low</li> <li>✓ Wrong AUDIO OUTPUT setting</li> </ul>	<ul style="list-style-type: none"> <li>✓ Press [PLAY] to resume normal playback</li> <li>✓ Check audio connections</li> <li>✓ Adjust TV volume</li> <li>✓ Check AUDIO OUTPUT setting</li> </ul>
No Video	<ul style="list-style-type: none"> <li>✓ Disconnection of video equipment</li> <li>✓ Wrong output setting of VIDEO OUTPUT</li> </ul>	<ul style="list-style-type: none"> <li>✓ Check video connections</li> <li>✓ Check video output setting of VIDEO OUTPUT in GENERAL SETUP</li> </ul>
Remote control unit does not work	<ul style="list-style-type: none"> <li>✓ No batteries in remote control</li> <li>✓ Dead batteries</li> <li>✓ Remote control not being pointed at the remote sensor</li> </ul>	<ul style="list-style-type: none"> <li>✓ Put in new batteries</li> <li>✓ Replace batteries</li> <li>✓ Point the remote control at the remote sensor</li> </ul>

DVD Symptom	Possible Cause	Remedy
Does not play, even when a title is selected	✓ Prohibited by the parental rating	✓ Confirm the PARENTAL setting.
Audio or subtitle language is not the one selected during the initial setting.	✓ The selected language does not exist in the disc	✓ Select another language using [AUDIO] or [SUBTITLE]
Setting language is not what you want	✓ Wrong OSD language setting	✓ Check the OSD language setting
Audio or Subtitle can not be changed	<ul style="list-style-type: none"> <li>✓ The disc contains only one language</li> <li>✓ Some disc should be changed in DVD MENU.</li> </ul>	✓ Check the disc contents.
The password for parental rating has been forgotten		✓ Use "3308" to override the forgotten password and re-enter a new password.
The video image brightness fluctuates during playback	✓ The DVD player is connected to the television via a video tape recorder	✓ Connect the DVD player directly to the TV, bypassing the VCR.
Can not fast scan during playback of DVD movie.	✓ Some discs may have sections, which prohibit skip or scan operations by users.	✓ No operation can be done during this problem.

## ■ SPECIFICATION

Power requirement	AC100 V to 240V, 50/60 Hz
Power consumption (With Amplifier on)	<180 W (approx. 9W at standby mode)
Power Amplifier Rated output (maximum)	5 x 60W music power
Output terminals (Speakers Load)	4ohms (of FR, FL, RS, LS, CENT);
Weight	4.2Kg / 9.25 pound.
Dimensions (W x D x H)	430x310x80 (mm) / 16.9 x 12.2 x 3.1 (Inch)
Operating temperature range	+5 °C to +40 °C / 41°F ~ 104°F
Operating relative humidity range	45 % to 75%

Video system	PAL 625/50 Hz	
S-video terminal	Y output level	1 Vp-p±0.2 (75 Ω)
	C output level	0.88 Vp-p±0.176 (75 Ω)
Composite video terminal	1 Vp-p±0.2 (75 Ω)	
Horizontal resolution	More than 500 Lines	

Audio parameters (Amplifier)	Frequency Response	20Hz ~ 20kHz ±1dB
	Dynamic Range	≥ 70dB
	S/N Ratio	≥ 80dB

<ol style="list-style-type: none"> <li>1. First class laser product.</li> <li>2. Danger: when the internal functions are out of order or damaged, opening the cover may cause unseen radiation.</li> <li>3. It should be kept away from direct sunlight.</li> <li>4. Caution: Do not open the top cover. No internal part should be maintained or serviced by the user. Qualified person should carry out all such work.</li> </ol>	<p>Rating labels on the back of the machine</p> <div style="border: 1px solid black; padding: 10px; text-align: center;"> <p><b>CLASS 1 LASER PRODUCT</b></p> </div>
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- Features and specifications are subject to change without notice.
- Weight and dimensions are approximate.

# **Eltax DVD Receiver**

## **DR-110**

**[www.eltax.com](http://www.eltax.com)**