system FIDELITY

Service manual

DVD-R150 Multimedia Receiver

POWER
STANDBY/ON

– TUNING +

PHONES

STATION · SOURCE · CARD/USB

VOLUME

SD/MMC/MS · USB

VIDEO · L AUDIO R · AV3

DVD VIDEO

COMPONENT · CD-RW · SRS · HDMI · MPEG4

DVD–R150

CONTENTS

SAFETY INFORMATION

|	
CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	**Caution:** - To reduce the risk of electric shock, do not remove Cover (or back) - No user-serviceable parts inside. - Refer servicing to qualified service personnel.
	This lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninstalled "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.
CLASS 1 LASER PRODUCT	The marking of products using lasers (except for some areas). The label is attached to the rear panel and says that the component uses beams that have been classified as Class 1,which means the unit is utilizing laser beams that are of weaker class. There is no danger of hazardous radiation outside the unit
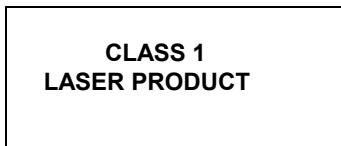
ACCESSORIES
1. RCA cord (yellow color).
2. Remote control.
3. Battery AAA x 2 for Remote control.
4. T-type FM Antenna (75 ohms) and matching transformer.
AM Loop Antenna
5. Instruction Manual.

IMPORTANT SAFETY INSTRUCTIONS

**CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.**

1. **READ AND FOLLOW INSTRUCTIONS:** All the safety and operation instructions should be read before the product is operated. Follow all operation instructions within this manual.
2. **RETAIN INSTRUCTIONS:** The safety and operation instructions should be retained for future reference.
3. **HEED WARNINGS:** Comply with all warnings on the product and in the operation instructions.
4. **CLEANING:** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
5. **GROUNDING or POLARIZATION:** This product may be equipped with a polarized alternating current line plug (a plug having one pin wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician since it is likely you have an out of sate wall socket. Never force the plug into the socket.
6. **OVERLOADING:** Do not overload wall outlets or extension cords as this can result in the risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cables, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in electric shock or fire hazard. Periodically examine the power cable - if its appearance indicates damage or deteriorated receptacles have it replaced by your service technician.
7. **POWER SOURCES:** This product should be operated only from the type of power source indicated on the rear panel label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intend to be operated from battery power, or other sources, refer to the operation instructions.
8. **ACCESSORIES:** Do not place this product on an unstable surface or support. The product may fall, causing serious injury to a child or adult as well as serious damage to the product. Any mounting of the product should follow the manufacture's instructions and use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
9. **OUTDOOR ANTENNA GROUNDING:** If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. The example below is for reference only. Correct grounding should always be installed by an electrician.
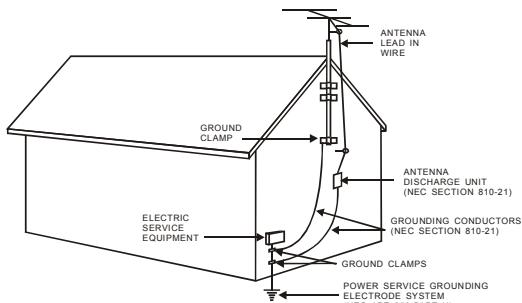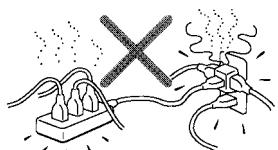
10. **POWER-CORD PROTECTION:** The power supply cables should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cables at plugs and the point where they exit from the product.

11. **ATTACHMENTS:** Do not use unauthorized attachments as they may cause faults with the unit.

12. **CONDITIONS REQUIREING SERVICE:** Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
    a) If the unit exhibits sudden unusual operation or unusual display characteristics.
    b) If liquid has been spilled, or objects have fallen into the product.
    c) If the product has been exposed to rain or water.
    d) If the product does not operate normally by following the operation instructions, adjusting only those controls that are covered by the operation instructions. (**NOTE:** improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation).
    e) If the product has been dropped or damaged in any way.
    f) If the product exhibits a distinct change in performance.

13. **SERVICING:** Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage and may damage precision components. Refer all servicing to qualified service personnel.
14. **LIGHTNING:** For added protection during a lightning storm, or when it is left unattended and unused for long period of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power line surges.

IMPORTANT SAFETY INSTRUCTIONS

15. **REPLACEMENT PARTS:** Should replacement parts be required, have the service technician verify that the replacement parts he uses have the same safety characteristics as the original parts. Use of unauthorized replacements parts can cause fire or electric shock.
16. **SAFETY CHECK:** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the product is in a safe operating condition.
17. **HEAT DISPERSAL:** Leave at least 10 cm of space between the top, back and sides of the unit and the wall or other electrical components.

18. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

19. **NOTES ON USE**

● Avoid high temperatures
Allow for sufficient heat dispersion when installed on a rack.

● Handle the power cord carefully. Hold the plug when unplugging the cord.

● Keep the set free from moisture. water,and dust.
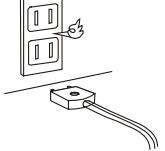
● Unplug the power cord when not using the set for long periods of time

*(For sets with ventilation holes)

● Do not obstruct the ventilation holes

● Do not let foreign objects in the set.
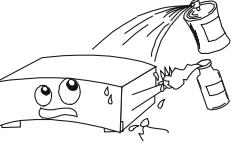
● Do not let insecticides,benzene,and thinner come in contact with the set.
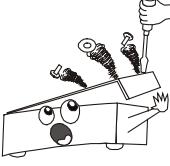
● Never disassemble or modify the set in any way.

REMOTE CONTROLLER

By using the provided remote control unit, the receiver can be controlled from your listening position. To use the remote control unit, point it at the REMOTE SENSOR window of the receiver.

Notes:
- Even if the remote control unit is operated within the effective range, remote control operation may be impossible if there are any obstacles between the unit and the remote control.
- If the remote control unit is operated near other appliance which generate infrared rays, or if other remote control devices using infrared rays are used near the unit, it may operate incorrectly.
- The power is turned on/off (standby) by pressing the POWER button on the remote control unit in standby mode.

Precautions concerning batteries
-Be sure to insert the batteries with correct positive+ and negative – polarities.
- Use batteries of the same type. Never use different types of batteries together.
- Rechargeable and non-rechargeable batteries can be used. Refer to the precautions on their labels.
- When the remote control unit is not to be used for a long time (more than a month), remove the batteries from the remote control unit to prevent them from leaking. If they leak, wipe away the liquid inside the battery compartment and replace the batteries with new ones.
- Do not heat or disassemble batteries and never dispose of old batteries by throwing them in a fire.

REMOTE CONTROL OPERATION RANGE

Use the remote control unit within a range of about 7 meters (23 feet) and the angles of up to 30 degrees aiming at the remote sensor.

BATTERY INSTALLATION
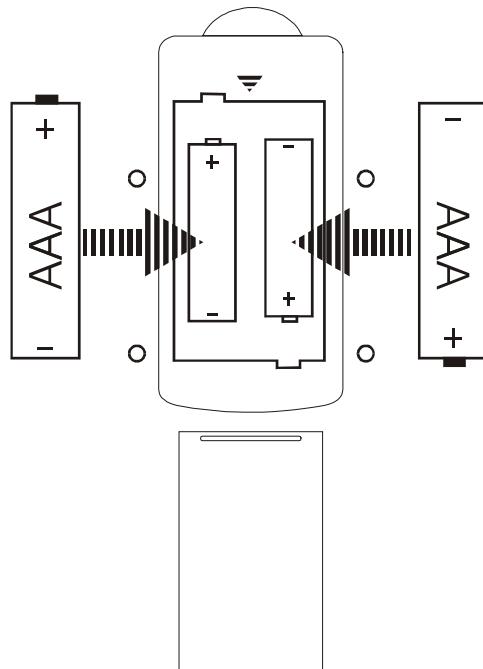
1. Remove the battery compartment cover.
2. Insert two "AAA" dry batteries.
   Make sure that the batteries are inserted with their positive "+" and negative "-" poles positioned correctly.
3. Close the cover until it clicks.
   If the distance required between the remote control unit and main unit decreases, the batteries are exhausted. In this case, replace the batteries with new one

FRONT PANEL INFORMATION
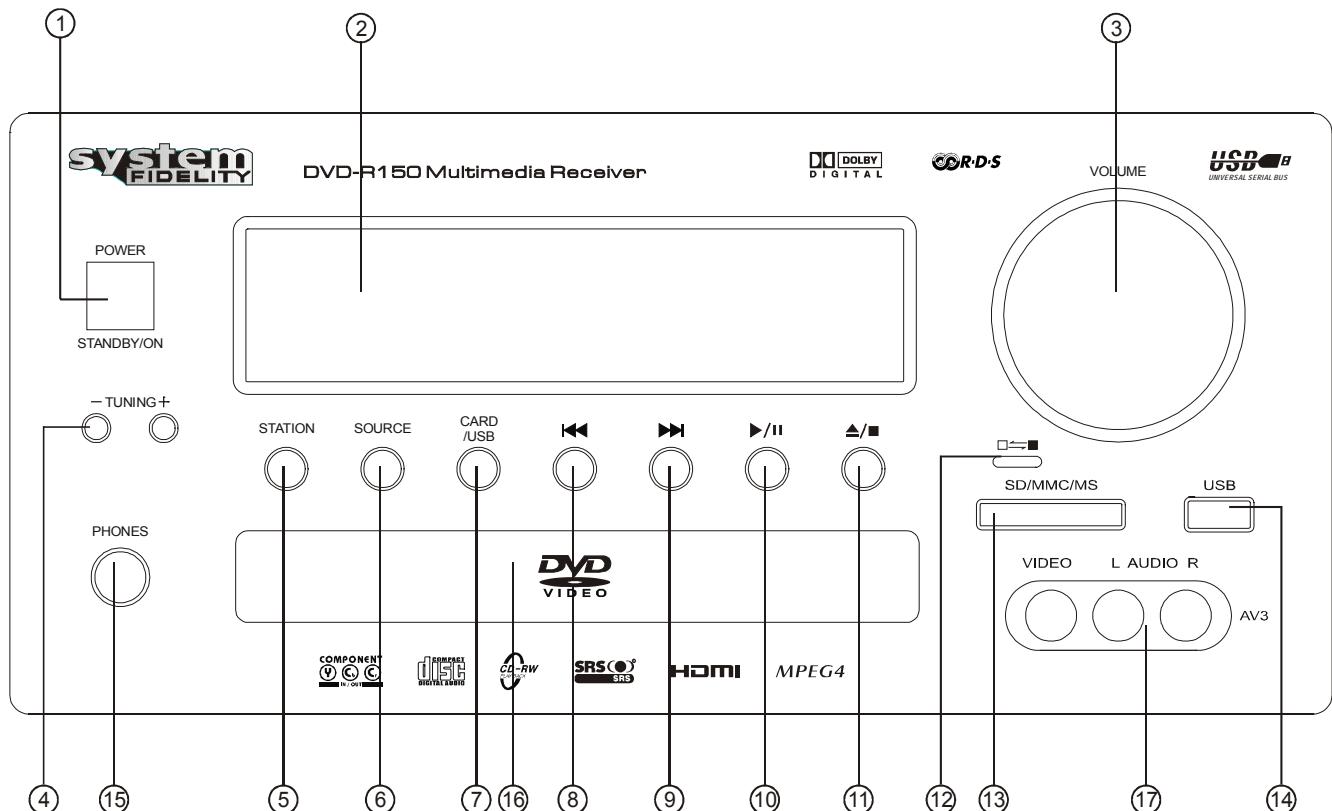
|			
1. Power Standby/On	When this unit is powered on, press this button to turn the unit into standby mode, press it again to turn on the unit.		
2. VFD Display Unit	Informs you of selected inputs and system state.		
3. Volume	While playing the source, if you want to increase or decrease the volume, just turn the volume knob clockwise or counterclockwise.		
4. Tuning +/-	When using the Tuner these buttons adjust the radio frequency.		
5. Station	When using the Tuner press this button to select a preset channel.		
6. Source	Press this button to select different kinds of source: DVD, USB, AV1, AV2, FM, AM, AUX, TV, AV3		
7. Card/USB	If you want to use SD/MMC/MS card or USB card for playback, insert a SD/MMC/MS card or a USB card, press this button to select the device you want to use.		
8. ⏮	Skip down.		
9. ⏭	Skip up.		
10. ►/‖	Press this button if you want to start or interrupt the disc playing		
11. ⏏/■	Under DVD mode, press this button if you want to stop the disc playing, press this button once more to open the disc tray.		
12. Door switch	When a SD card is used, push the door switch to the left side before attempting to insert a SD card, if not using the SD card or if the SD card is removed, always push the door switch to the right side to close the door to prevent dirt and dust from entering the input.		
13. SD card port			
14. USB port			
15. PHONES	Connect to the headphone. This is the jack for the headphone. Connect the plug on the stereo headphone for private listening. Adjust the volume so that it does not hurt your ears when using the headphones. - If you do not intend to use your headphones, always ensure that you unplug them.		
16. DISC TRAY			
17. AV3	Input for VCR, Video Camera Recorder, etc. It contains one video input and Analog Left and Right inputs.		

REAR PANEL INFORMATION
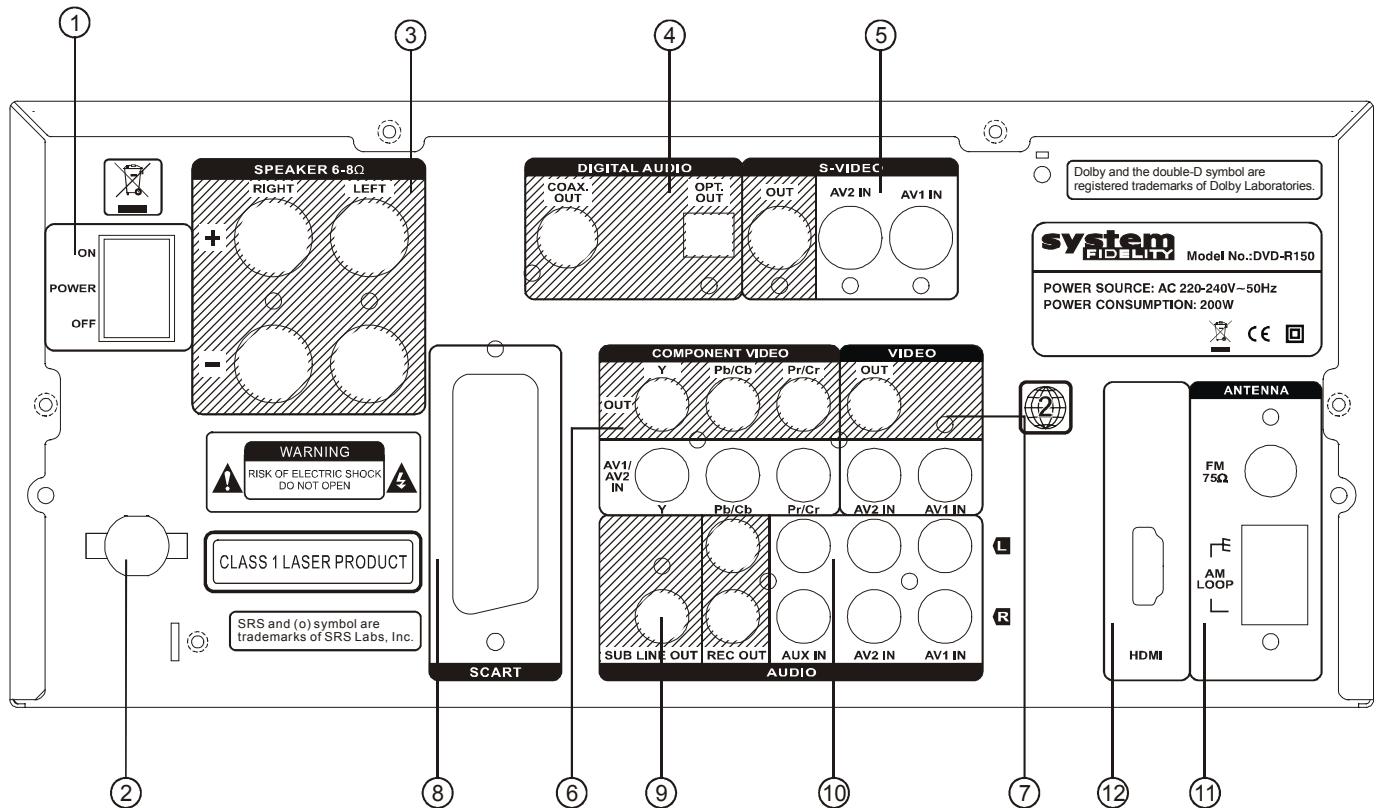
1. Power On/Off	Switches the unit on and off.	
2. Mains power lead	Once you have completed all connections, plug the AC power lead into an appropriate mains socket. The Multimedia receiver is now ready for use.	
3. Speaker terminals	Connect to loudspeakers with an impedance of between 4-8 ohms.	
4. Digital Audio	**- Coax. Out:** Connect to the digital coaxial input of an external recording device (eg MD/CDR etc) to record from the selected digital audio source. **- Opt. Out:** Connect to the digital optical input of an external recording device (eg MD/CDR etc) to record from the selected digital audio source.	
5. S-Video In/Out	**- S-Video In :** Connect the S-Video output from the source equipment. - **S-Video Out:** Connect to the S-Video terminal of a TV set.	
6. Component Video Input/Output	**- Input:** Connect the Component Video output from the source equipment. **- Output:** Connect to the Y, Pb/Cb & Pr/Cr terminals of a TV set.	
7. Composite Video In/Out	**- Input:** Connect the Composite Video output from the source equipment. **- Output:** Connect to your television via RCA phono cable to display the picture of any composite video connected unit.	
8. Scart	Connect to the Scart terminal of a TV set.	
9. Subwoofer Line Out	Line output for an active subwoofer	
10. Analogue audio inputs/output	3 x audio inputs (AV1/AV2 IN / AUX) / 1 x audio output (REC Out)	
11. FM/AM antenna	Antenna inputs for FM & AM	
12. HDMI out jack	Use an HDMI connection cable (commercially available) to connect to a display with an HDMI compatible port.	

REMOTE CONTROLLER INFORMATION
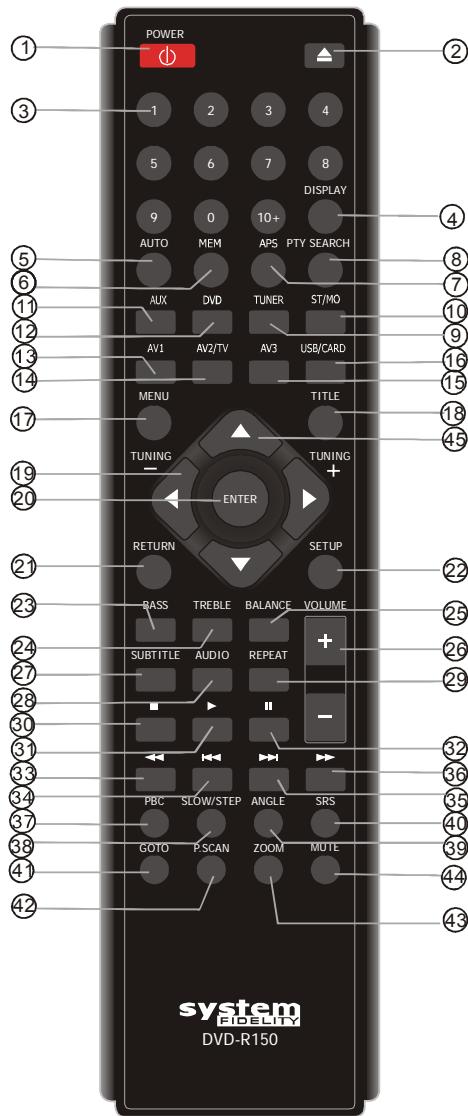
1. Power key

When this button is pressed during the remote standby state, the power of the unit can be switched on/off.

2. ⏏

Press this button to open the disc tray.

3. Number keys

These are the numeric keys for using in operating DVD player and preset station on FM/AM.

4. Display

When playing DVD disc, press this button to play the current playing time and the remained time.

5. AUTO

This button is used to select AUTO or MANUAL tuning for AM and FM stations. Press once to set to AUTO again for MANUAL.

6. Memory

When in tuner mode, press it to store the broadcast station you wish to preset.

7. APS

Under FM or AM mode, press this button to allocate and memorize radio stations automatically.

8. PTY Search

Used for our other model with RDS function.

9. TUNER

Press this to select source of FM and AM.

10. ST/Mono

Press it to alternate between stereo mode and mono mode when listen to FM broadcast.

11. AUX

Press this button to select the source of AUX.

12. DVD

Press this button to select the source of DVD.

13. AV1

Press this button to select the source of AV1.

14. AV2/TV

Press this button to select the source of AV2/TV.

15. AV3

Press this button to select the source of AV3.

16. USB/CARD

If you want to use USB/SD card for playback, insert a USB /SD card, press this button in DVD source mode, DVD DRIVE, USB/CARD DEV 1 appear in the TV screen, use the up & down cursor on the remote or press this button repeatedly to select the device you want to use**.**

17. Menu

Press it to show the main contents of DVD.

18. Title (only for DVD)

When playing DVD including many titles, press it, the title menu will appear on the television screen, use the CURSOR to choose the title you want to play, then press ENTER to start your chosen title.

19. Tuning + / -

When using the Tuner these buttons adjust the radio frequency.

20. Enter

To confirm the item, button or number that you select.

7

21. Return
Press it to cancel the utilizing of controlled menu picture.
22. Setup
You can access the DVD player configuration settings by using the Setup Menu.
23. BASS
The button is used for adjusting the BASS tone of the speakers.
24. TREBLE
The button is used for adjusting the TREBLE tone of the speakers.
25. BALANCE
The button is used for adjusting the balance of the speakers.
26. Volume+/-
To increase or decrease the Master Volume.
27. Subtitle (only for DVD)
Press this button to select different subtitle languages from those included in the DVD video or turn it off.
28. Audio
In DVD mode: select different languages for dialogue.
29. Repeat
1). Press it to play a single chapter/title on a DVD video or a single track/entire disc on a CD repeatedly.
2). When playing MP3, press this button repeatedly, you will get the following loop: SINGLE→ FOLDER → REPEAT ONE→FOLDER REPEAT→DISC→ DISC REPEAT→DISC SCAN.
SINGLE means that only the current song will be played, when this song finishes playing, the playback will stop automatically.
FOLDER means that only the songs in the folder you selected will be played.
REPEAT ONE means that the song you selected will be played repeatedly.
FOLDER REPEAT means that the folder you selected will be played repeatedly.
DISC means the whole disc will be played.
DISC REPEAT means that the disc will be played repeatedly.
DISC SCAN means that each track will be scanned for 10 seconds.

30. ■
Under DVD mode, press this button if you want to stop the disc playing.
31. ►
Press this button if you want to start the disc.
32. ıı
Press this button if you want to interrupt the disc playing
33. ◄◄: Fast backward (search backward)
34. I◄◄ Skip to previous chapter or track.
35. ►►I Skip to next chapter or track
36. ►►: Fast forward (search forward)
37. PBC
When playing VCD (2.0), press this button to turn on/off PBC.
38. Slow/ Step
- When play back DVD disc, press this button repeatedly, you will get SF 2 x, SF 4 x, SF 8 x, SR2 x, SR 4 x, SR 8 x.
- When play back VCD disc, press this button repeatedly, you will get SF 1 x, SF 2 x, SF 3 x.
- Press the 'ıı' button first and then press this button, the picture will move forward frame by frame
39. Angle (only for DVD disc)
As to the DVD recorded with multi-angular, press ANGLE button to change the angle of the screen.
a). Press this key once, you can get Angle 1.
b). Press it again, is Angle 2.
40. SRS
Press this button to select the source of 3D Stereo, 3D Mono, and BYPASS.
41. Goto
Press this button to play your desired selection and location while playing the disc.
42. Pro. Scan
When playing DVD disc, and this unit is connected to a TV set with progressive scan function, press this key to better the picture seen on the screen.
43. Zoom
Enlarge the picture
44. Mute
Press this button to mute the sound, press it again to cancel the mute function.
45. Cursor keys◄►▲▼

CONNECTION

LOUDSPEAKER CONNECTIONS

Caution:
To avoid damaging the speakers with a sudden high-level signal, be sure to switch the power off before connecting the speakers.
● Check the impedance of your speakers.
  Connect speaker with an impedance of 8 ohms or more. The amplifier's red speaker terminals are the + (positive) terminals and the black terminals are the – (negative) terminals.
● The + side of the speaker cable is marked to make it distinguishable from the – side of the cable. Connect this marked side to the red + terminals and the unmarked side is the black terminal.
● Prepare the speaker cords for connection by stripping off approximately 10 mm or less (no more as this could cause a short-circuit) of the outer insulation. Twist the wires tightly together so that they are not straggly.

1. Unscrew the knob
2. Insert the speaker cable.
3. Tighten the knob and secure the cable.
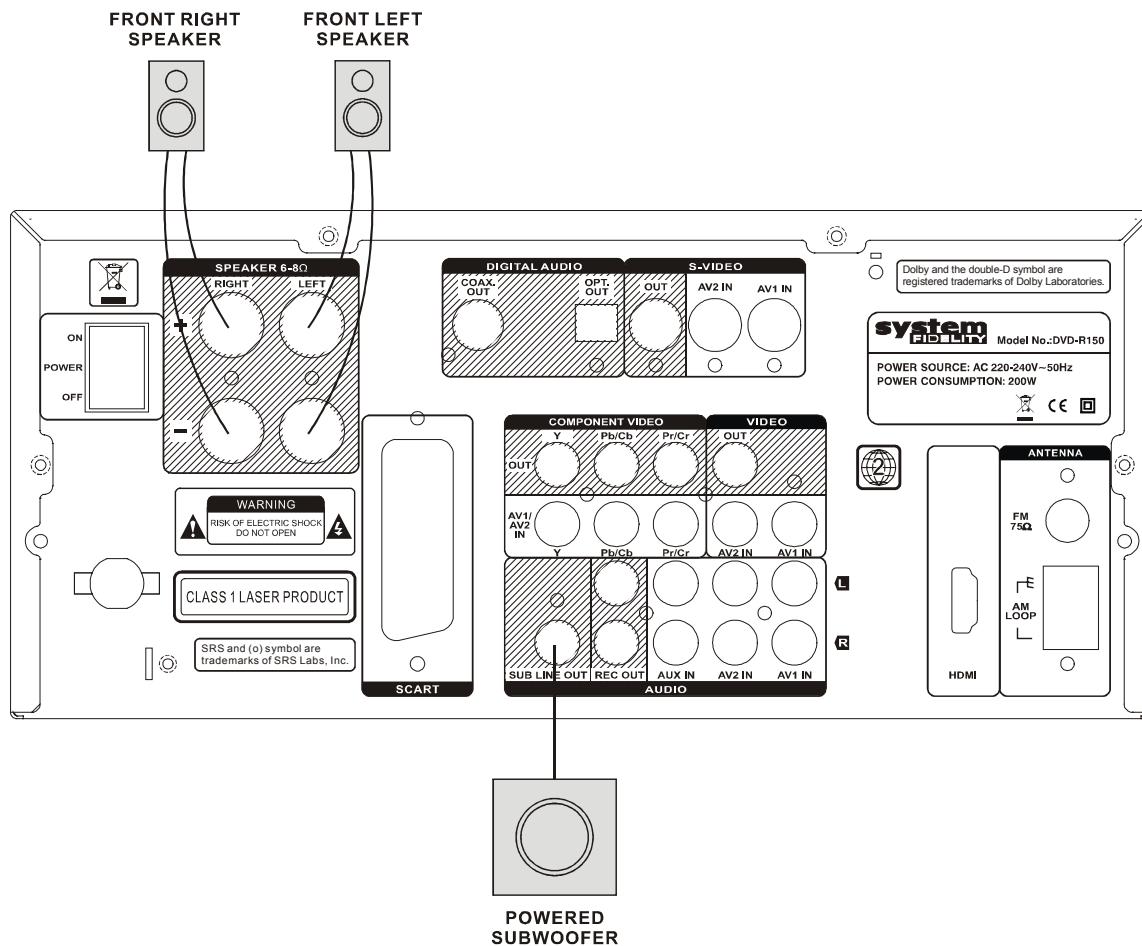
Note: The front left speaker and front right speaker connections are made via loudspeaker cable, while the active subwoofer is connected via a standard RCA phono cable.

CONNECTION

AUDIO CONNECTIONS

Note: Do not plug in the mains power lead or turn on the unit all connections have been made.

Connect to source equipment using phono cables (stereo 2RCA-2RCA).
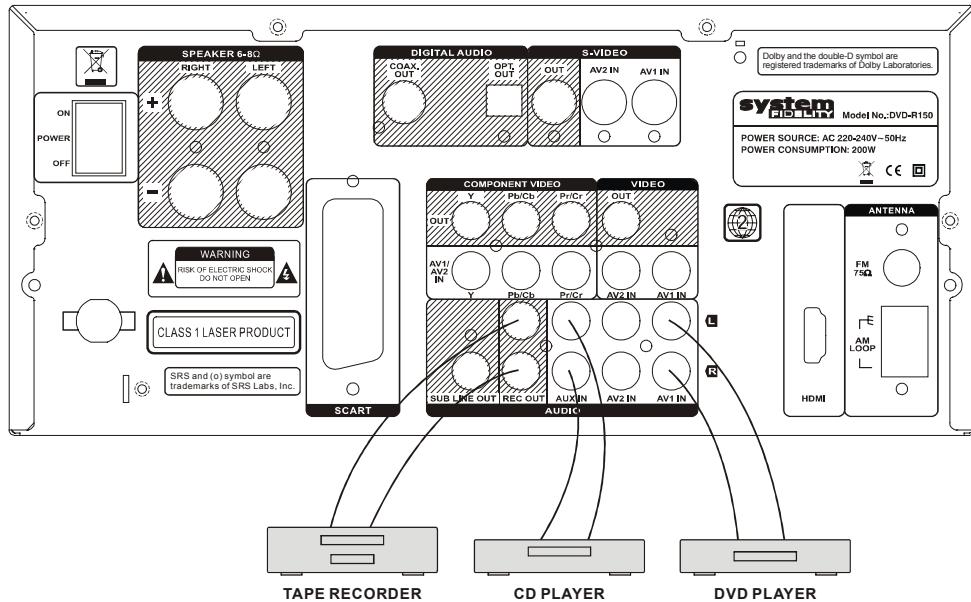
DIGITAL CONNECTIONS

Two types of digital audio connections can be made to this unit, optical and optical.
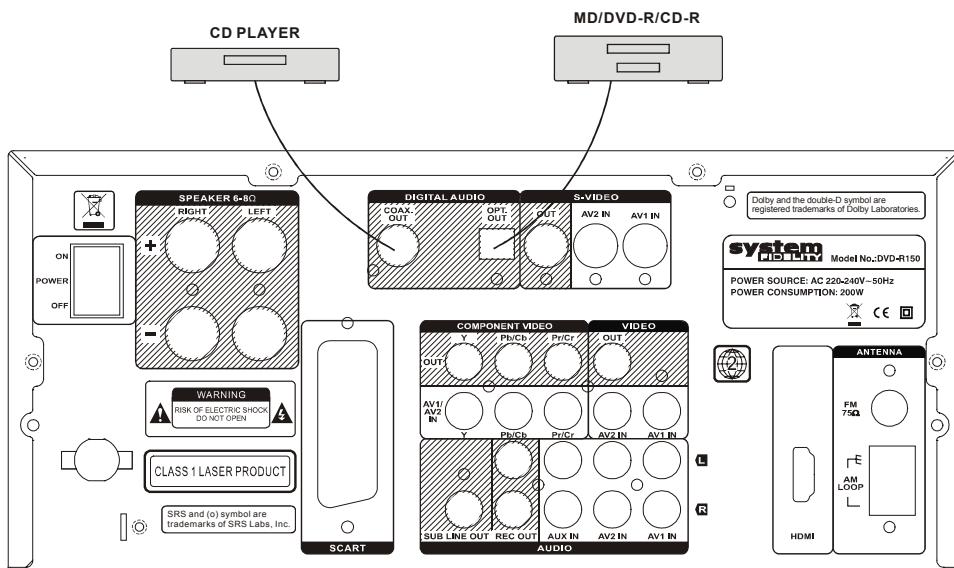
CONNECTION

VIDEO CONNECTIONS

There are four types of video connections can be made on this unit: Composite, S-Video, SCART and Component. For best picture quality we recommend making Component/SCART video connections, then in declining order of quality, S-Videos and then Composite video connections.
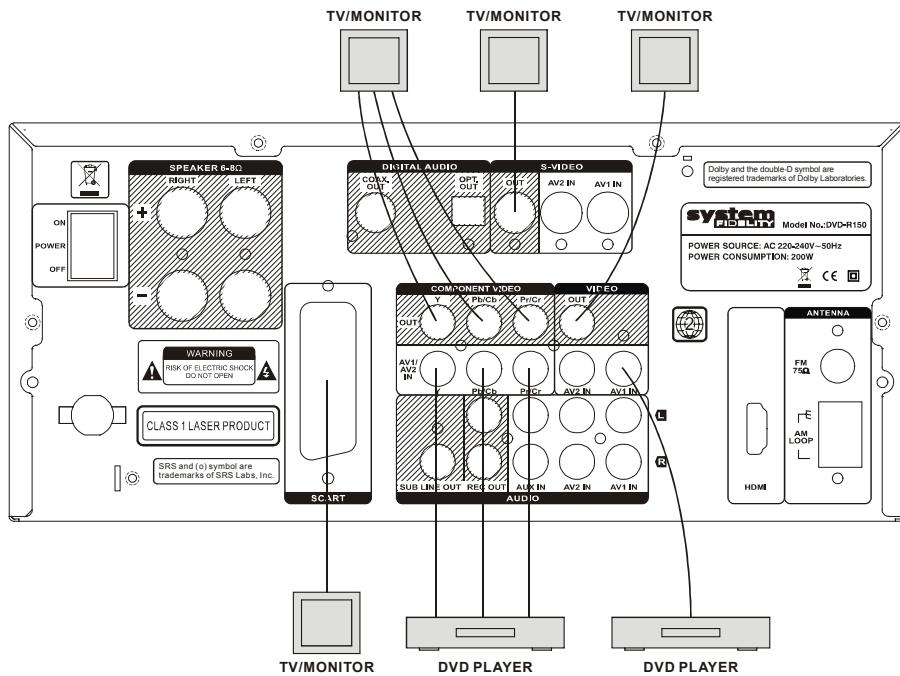
FRONT INPUT CONNECTIONS

The front panel AV3 input is for temporary connections to video games consoles etc. Connect to a video game or video camera's outputs using a composite video cable and stereo phono cable (RCA-RCA).
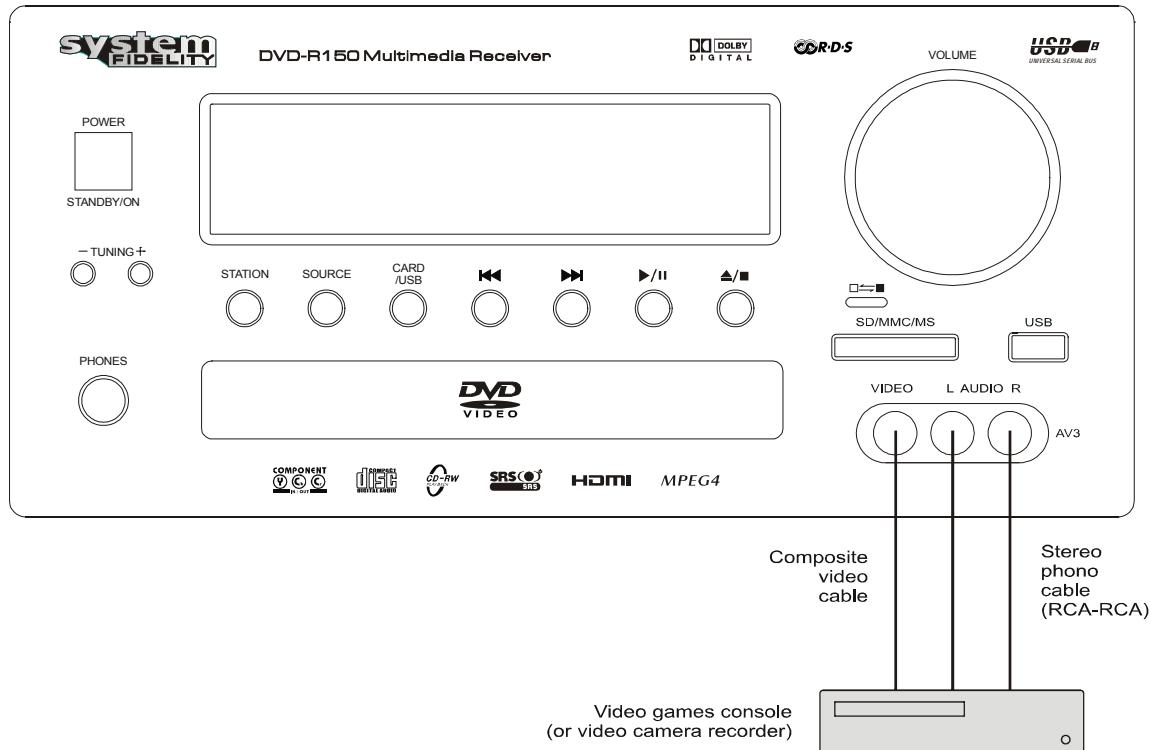
COMMECTIONS

AERIAL CONNECTIONS

FM aerial
Connect an aerial to the FM 75 ohm socket (a simple wire aerial is supplied for temporary use). Extend the lead and move the aerial around until you get the best reception. For continued use, we strongly recommended using a 75 ohm outdoor FM aerial.

AM loop aerial
Connect each end of the single length antenna to the antenna terminals. Place the antenna as far from the main system as possible to prevent unwanted noise and to obtain optimum reception. If the AM loop aerial provided does not receive sufficient reception, it may be necessary to use an outdoor AM aerial.
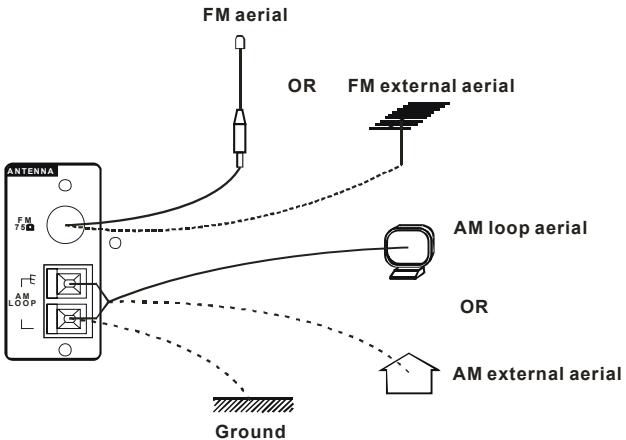
FUNCTION AND OPERATION EXPLANATION

Turn ON/OFF the unit
1. Connect the power cord to the rated AC socket. Press the POWER ON/OFF switch (on the rear panel), the unit has been turned on and is in the previous played mode.
2. Press the STANDBY button (1/ front panel) to turn off the unit and into the standby mode. Press the STANDBY button again to turn on the unit.

Input function selection
After the unit having been turned on, press the SOURCE button to choose the your desired input signal source. Press the SOURCE button repeatedly to select DVD, USB, AV1, AV2, FM, AM, AUX, TV OT AV3.

Basic playback
1. In DVD mode, " DISC LOADING" will appear on the screen and the initial picture on the TV screen. Now the unit is searching whether there is disc inside the unit, if yes, the menu will be shown or the disc will be played automatically. If no, " NO DISC" will appear.
2. Press ⏏/■ button to open the DVD disc tray, place the disc on it, press ⏏/■ button again to close the disc tray, the unit starts to read the disc, and the DVD menu will appear on the TV screen or start playing automatically.

Function operation
1. ►/II: play/pause button
Under the stop mode, press it once to start playing.
a. During the playing mode, press it once to interrupt the playing and show the static picture.
b. Press it again to continue playing
2. ◄◄ ►►I: skip backward/ forward
Under the state of playing or pausing, press it once to skip one chapter or one music forward or backward, then continue playing.
3. ◄◄ ►►: fast backward/forward (previous/next track)
During playing, press the ►► button or the ◄◄ button on remote control repeatedly, DVD disc fast forwards/ backwards at 2 times, 4 times, 6 times and 8 times of the normal speed.
A. When playing CD, VCD disc, press ►► button or the ◄◄ button on remote control repeatedly, you can get 2 times, 4 times, 8 times and 16 times fast forward/ backward.
B. Under the fast forward/backward mode, press ►/II button, it will resume normal playback.
4. REPEAT: Repeat track or disc (for SVCD, VCD, PBC must be in OFF mode, otherwise not valid.)
a. Press it once, repeat chapter or track.
b. Press it again, repeat title or disc.
c. Press it once more to cancel the repetition.

5. ZOOM: Enlarge the picture. (CD not valid)
 A. Press this key repeatedly to enlarge 1.5 x , 2 x, 3 x, times.
B. While playing with enlarging picture, press the 4 shift buttons ▲ ▼ ◄ ► on remote control to move the picture.
6. MENU: (CD not valid)
A. Press **MENU** button to show the main contents of the DVD.
B. Use the 4 shift button on front panel or remote control to choose the content or music you want.
C. Press ►/II or **ENTER** on remote control to confirm playing.
In addition, if there are subtitles, using the above step a—b to choose the your desired subtitles.
If the disc being played without contents, this button will be no function.
7. DISPLAY: Press this button to check the current playing time and the remained time of the title/chapter/track being played and the total remained time of the disc being played.
 A. Press the **DISPLAY** button to display the title, chapter included in this disc and the playing time.
B. Press it again to display the remained time of the title.
C. Press it again to display the playing time of the chapter.
D. Press it again to display the remained time of this chapter.
E. Press it once more to clear up the time display mode on the TV screen.
8. ANGLE: to choose the angle of the picture (CD, VCD, SVCD not valid).
 Press this button in sequence to choose the angle of the scenes. (As to those DVD recorded without multi- angular, not valid).
With the DVD set on the multi-angular mode ON, when playing DVD recorded with multi-angular, the current playing angle mark appears on the upper right angle on the TV screen.
9. AUDIO
When play DVD disc
a. Press this key to select audio channel1 output.
b. Press this key again to select audio channel 2 output.
Note: Audio channel 1, 2… is the music style recorded in the disc, if the disc does not has such characteristic, "NOT VALID" will appear.
10. RETURN: (CD not valid)
A. During playing VCD, SVCD, press " **RETURN**" button to go back to main menu.
B. During playing, after pressing "**SETUP**" to enter setup function, press **RETURN** button to exit **SETUP** and start playing again.
11. SETUP: menu setting button
A. Press **SETUP** button, "….SETUP MENU…MAIN PAGE…" appears on the TV screen.
B. During setup, using the 4 shift button ▲ ▼ ◄ ► and the functional button **ENTER** on remote control, you can complete the your desired functional setting.

FUNCTION AND OPERATION EXPLANATION

General Setup

TV Display ⟶	Normal/PS
	Normal /LB
	Wide
TV Type ⟶	PAL
	Multi
	NTSC
Video Out ⟶	YUV
	RGB
Angle Mark ⟶	On
	Off
OSD Lang ⟶	English
	French
	German
	Spanish
	Italian
	Hungarian
	Slovene
Screen Saver ⟶	On
	Off
HDMI Setup ⟶	Off
	480p
	720p(60Hz)
	1080i(60Hz)
	576p
	720p(50Hz)
	1080i(50Hz)
HDMI Audio ⟶	SPDIF
	PCM

Audio Setup

SPDIF Output ⟶	Spdif/Off
	Spdif/Raw
	Spdif/Pcm
	On
LPCM Out ⟶	48K
	96K

Preferences Page

Audio ⟶	English
	French
	German
	Spanish
	Italian
	Hungarian
	Slovene
Subtitle ⟶	English
	French
	German
	Spanish
	Italian
	Hungarian
	Slovene
Disc Menu ⟶	English
	French
	German
	Spanish
	Italian
	Hungarian
	Slovene
Parental ⟶	1 Kid Saf
	2 G
	3 PG
	4 PG 13
	5 PGR
	6 R
	7 NC 17
	8 Adult
Password ⟶	Change
Defaults ⟶	Reset

1). General Setup

● TV Display

To select the screen format to fit your TV screen.

NORMAL/PS (4:3 Pan Scan): To select this screen when this system is connected to normal TV set. The wide-screen picture display on the full screen, but some parts of the video picture are cut off automatically.

NORMAL/LB (4:3 Letter-box): To select this screen when this system is connected to normal TV set. When display wide-screen picture, there are black strips on upper and bottom.

WIDE /HDTV(16:9): To select this screen when this system is connected to wide-screen or HDTVTV set.

● TV Type

There are three types of TV system setting in this system: Multi, NTSC and PAL. Select a different setting according to your TV system.

Note: Only when HDMI setup is in Off mode, can you select this item.

● Video Out

To select video output signal (RGB or YUV), if YUV is selected, YUV has video signal output, but not RGB; if RGB is selected, both YUV and RGB has video signal output.

Note: Only when HDMI setup is in Off mode, can you select this item.

● ANGLE MARK

As to the DVD recorded with multi-angular scenes, you can change the angle of the screen.

For example, when you play a DVD in which the motor car is going forward, without interrupting the moving scenes, you can display the scenes from the font, left side window or right side window. Each time you press the ANGLE key on remote, the angle will be changed once.

There are two modes ON/OFF in this angle mark.

ON mode: The current playing angle mark number displayed on the right upper angle on the TV screen.

OFF mode: No angle mark number displayed on the TV screen.
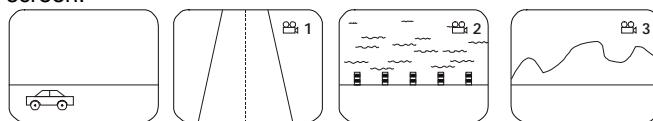
Note: The angle number differs from disc to disc or from scenes to scenes. Some discs are not recorded with multi-angular, the angle may not be changed.

● OSD LANG

There are seven different languages: English, Spanish, German, French, Italian, Hungarian & Slovene set in this unit system.

Note: OSD LANG differs from DVD disc to DVD disc. Even if one language has been set, if the disc underplaying recorded w/o such kind of language, only other languages can be displayed.

● SCREEN SAVER

If you activate the screen saver function, when this unit is under stop, tray-open, no disc or picture still for about 60 seconds, SCREEN SAVER picture appears. The purpose of SCREEN SAVER is to protect the display screen from damage.   (The initial setting is ON.)

● HDMI Setup

OFF (Default): No video outputs from the HDMI OUT connector.

480p: Video output from HDMI OUT jack at 480p.

720p(60Hz): Video output from HDMI OUT jack at 720p(60Hz).

1080i(60Hz): Video output from HDMI OUT jack at 1080i(60Hz).

576p: Video output from HDMI OUT jack at 576p.

720p(50Hz): Video output from HDMI OUT jack at 720p(50Hz).

1080i(50Hz): Video output from HDMI OUT jack at 1080i(50Hz).

● HDMI Audio

To select the audio output format from HDMI: SPDIF or PCM.

2). Audio Setup

● SPDIF output

- SPDIF Off: When this item has been selected, the output is only analog.

- SPDIF RAW: When this item has been selected, the audio source output will be exactly the same as that of inputting.

- SPDIF PCM: When this item has been selected, the audio source output will always be PCM (stereo) no matter what source has been inputted.

● LPCM Out

This function is available only in digital output, there are 48K & 96K set in this unit.

3). Preferences

● Audio

- After entering AUDIO setting, select your desired AUDIO language by using the direction key, then press ENTER button to confirm it. There are seven modes for you to select: English, French, German, Spanish, Italian, Hungarian and Slovene.

● Subtitle

- After entering SUBTITLE setting, select your desired SUBTITLE language by using the direction key, then press ENTER button to confirm it. There are seven modes for you to select: English, French, German, Spanish, Italian, Hungarian and Slovene.

● Disc menu

- After entering MENU LANG setting, select your desired MENU language by using the direction key, then press ENTER button to confirm it. There are seven modes for you to select: English, French, German, Spanish, Italian, Hungarian and Slovene.

Note: If the disc does not have the language you select, it can be played only with the disc menu language recorded.

● Parental (restrict the children playing)

This function is used to setup the playing restrictive level.

1. Press the SETUP button in STOP mode.

2. Press the Cursor button (▼) to select Preferences, then press the ENTER button.

3. Press the Cursor button (▼) to select PARENTAL

4. Press the Cursor button (►) to Rating Level Options, press the Cursor buttons (▲or ▼) to select a rating level, then press the ENTER button, input password"330812341234", then press the ENTER button to confirm.

5. Press the SETUP button to exit.

● Password

1. Press the SETUP button in STOP mode.

2. Press the Cursor button (▼) to select Preferences, then press the ENTER button.

3. Press the Cursor button (▼) to select PASSWORD.

4. Press the Cursor button (►) to CHANGE, then press the ENTER button, you are required to input password old password ("330812341234"), new password, and confirm password, then press the ENTER button to confirm.

5. Press the SETUP button to exit.

● Defaults

This unit has a function that preserves the preset memory and most-recent memory function. In the event of a power failure, or if the power cord of this unit is disconnected from the electric outlet, the back-up memory will preserve the preset memory and most-recent memory functions for as long as approximately 1 week. If the power supply is interrupted for 7 days or longer, the memory settings will be erased.

If it is desired to reset all settings to their factory defaults or in the unlikely event that the unit locks up due to an electrical discharge etc:

1. Press the SETUP button in STOP mode.

2. Press the Cursor button (▼) to select Preferences, then press the ENTER button.

3. Press the Cursor button (▼) to select DEFAULTS.

4. Press the Cursor button (►) to RESET, then press the ENTER button.

5. Press the SETUP button to exit.

RADIO OPERATION

1. Select FM or AM broadcasting mode by pressing **Source** button.

2. Tuning mode:

A. AUTOMATIC TUNING

1). Press the **Auto** button on remote control to activate automatic selection. (Default mode is Manual selection) (**Note**: Auto appears on the display).

2). Press **Tuning +/-** to select the station you want to listen to. When a station is tuned in, the tuning process will stop automatically. (Automatic selection)

3). Press **Tuning + /-** again to select another channel.

B. MANUAL TUNING

It is for selecting stations, which cannot be tuned automatically (manual selection)

Press the **Auto** button on remote control to activate manual selection. Each time the **Tuning + /-** button is pressed momentarily (0.5 second or less), the frequency changes by a fixed step. FM: 50 kHz steps; AM: 9 kHz steps

3. PRESET BROADCAST STATION

This facility is used to store FM, AM broadcasting from channel 1 to 20 (FM)/1 to 10 (AM) repeatedly.

a. Press **Source** to select broadcast FM or AM.

b. Press **Tuning-** or **Tuning+** until the displaying frequency begins to change, then release. When this system tunes to station the scanning will stop.

c. Press **MEM** button on remote control. A preset number will appear on the display. Use **Station** to choose your desired preset number, then press **MEM** button again to confirm.

d. Repeat the above procedures, this unit can store 1 to 15 stations.

e. When you want to listen to the preset broadcast station, press **Station** on front panel or **number key** on remote to select your desired preset station.

4. FM MODES AVAILABLE

Press **ST/Mono** button to alternate between Stereo mode and Mono mode.

STEREO

FM stereo broadcasts are received in stereo and the "∞" indicator lights on the display.

MONO

To compensate for weak FM stereo reception, select this mode. Reception will now be forced monaural, reducing unwanted noise.

RADIO DATA SYSTEM

RADIO DATA SYSTEM (RDS)
RDS is a method for the transmission of additional information from local Radio Stations. It can only operated in FM mode. For example, name of the station broadcasting, name of the program or the type of program will be shown on the multi-function display.

It functions only when the local broadcasting stations have the RDS transmission and the signal is strong enough.

Press **"DISPLAY"** on remote control, there are functions for PS, PTY, WAIT CT and RT.

a) PS (Program Service Name)

Press **"DISPLAY"** on remote control until **"PS"** appears. The current station name will be shown.
Note: **"NO PS"** will be shown if the signal from local radio station is not strong enough or no such service.

b) PTY (Program Type)

Press **"DISPLAY"** on remote control until **"PTY"** appears. The current name type of the program will be shown.
Note: **"NO PTY"** will be shown if the signal from local radio station is not strong enough or no such service.

c) CT (Clock - Time)

Press **"DISPLAY"** on remote control, then **"WAITING CT"** will appear.
The current time from Radio Station will be shown, e.g. 15:30
Note:
　1. The **Clock - Time** will be only transmitted from local radio station once a minute, so you need to wait for less than 1 minute to show the result.

2. **"NO CT"** will be shown if the signal from local radio station is not strong enough or no such service.

d) RT (Radio text)

Press **"DISPLAY"** on remote control until **"RT"** appears. Some Text messages will be shown.
Note: **"NO RT"** will be shown if the signal from local radio station is not strong enough or no such service.

PTY SEARCH (Program Type Search)

1. Press the **"PTY SEARCH "** on remote control, "PTY SELECT" will flash on the display.
2. Press **TUNING + /-** to choose the program type, for example, NEWS, SPORT, …etc.
3. Press **"PTY SEARCH"** again once you choose the program type.
4. When the type of program tuned in, it will stop searching, otherwise, "NO FOUND" will appear.

APS (Auto Program Search)

1. Select your FM or AM band.

2. Pressing the **"APS"** on remote control, it will search the available stations.　The searched stations will be memorized in the respective band memory up to maximum FM=20, AM=10 memories.
Note: Weak station may also be storied in memorizes, so manual memory presetting may be needed in order to have better receiving.

REGION MANAGEMENT INFORMATION

DVD/VCD/CD player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the region number that described on the DVD disc does not correspond to the region number of this player, then the player cannot play the disc.

The player is set to work only in a particular world region as label on the player.

Region number	Region
1	Canada, USA, U.S Territories
2	Europe (including Poland, Romania, The Czech Republic), Japan, Middle East including Saudi Arabia, Egypt, Iran, South Africa
3	Southeast Asia, East Asia (including Hong Kong, Taiwan, South Korea)
4	Australia, New Zealand, Mexico, Caribbean, Central and South America
5	Former Soviet Union, India, Africa, Pakistan, Turkmenistan, North Korea
6	China

TROUBLESHOOTING GUIDE

If you have a problem with DVD player, check this list for a possible solution before calling for service. Some simple or minor problem can be solved by yourself. If the unit works abnormally continuously or the unit has been physically damaged, turn off the power and disconnect the AC power plug, consult qualified person such as dealer for service.

Symptom	Remedy
No sound or Distorted sound	● Confirm the power cord plug is well connected. ● Make sure the setting of TV or other AV equipment is proper. ● Make sure the TV or the amplifier is under normal operation. ● As you use the headphones, make sure the headphone is well connected with the jack and the volume switch (phone level) is turned to proper level ● No sound is heard during still picture (pause) or slow motion play.
No picture	● Make sure the equipment is well connected. ● Make sure the input setting for the TV is "Video" ● Make sure TV is under normal operation. ● Make sure the color system is set at the proper mode (NTSC/PAL)
Picture breakdown	● Make sure there is no significant damage on the disc ● The disc may be dirty, clean it and re-start again
Does not play	● Make sure the disc is well installed with the label facing at the top. ● The disc may be dirty and require cleaning ● The player will be affected by moist disc or by condensation, keep the disc dry and wait about 1 or 2 hours to allow the player to dry out.
No operation can be performed with the remote control	● Check the batteries are installed with the correct polarities (+ &-) ● Make sure the batteries are in good condition and not depleted. If yes, replace the new ones. ● Make sure the remote is pointing at the sensor ● Remove the obstacles between the player and the remote
No surround sound	● Choose the correct setup of the speaker setting which matches with your stereo system ● Check speaker connections ● Check the sources materials—if mono, sound may only come out of the center output. ● If 2-channel DVD model, you will require a Pro Logic decoder or Dolby Digital decoder to reproduce the surround output.
No 4:3 (16:9) picture	Choose the correct setup "TV SCREEN" item that matches with your TV type.

Remark: Abnormal functioning of this unit may be caused by static electricity or other external interference. To restore normal operation, unplug the AC cord and then plug it in again or switch off and on the player again.

SPECIFICATIONS

Audio Section

| **Rated Power Output:** | FRONT | 40 W + 40 W | 8 ohm |
| | FRONT | 50 W + 50 W | 4 ohm |

Total Harmonic Distortion: Less than 0.2% rated power output

Line Input (Each Line Input - FRONT SPEAKER OUT)

Input Sensitivity/Impedance:	200 mV /47kohm	
Frequency Response:	20 Hz - 20 kHz +0.5 / -3 dB	
Tone Control Range:	BASS:	±10dB
	TREBLE:	±10dB
Signal-to-noise Ratio:	70 dB CCIR/ARM	

Woofer Output (Each Line Input – SUBWOOFER OUT)

| Rated Output/Impedance: | 2 V / 2.2Kohm |
| Frequency Response: | 10 Hz - 120 Hz ± 3 dB |

FM Tuner Section

Frequency Range:	87.5-108 MHz
Sensitivity:	14dB (5uV)
Antenna Terminal:	75 ohm (unbalanced)

MW Tuner Section

Frequency Range:	522 - 1629 kHz (Europe) 9 kHz step
Sensitivity:	60 dB / M
Single-to-noise Ratio:	50 dB
Antenna:	Loop Antenna

Video Section

Standard Video Jacks	
Input and Output	1 Vp-p / 75ohm
Level/Impedance:	

General

Power Requirements:

Power Supply:	AC220V –240V~ 50Hz
Power Consumption:	120 Watts
Dimensions:	275(W) x 125(H) x 350(D) mm

Net Weight: 5.8Kg

*Design and specifications are subject to change without notice.