



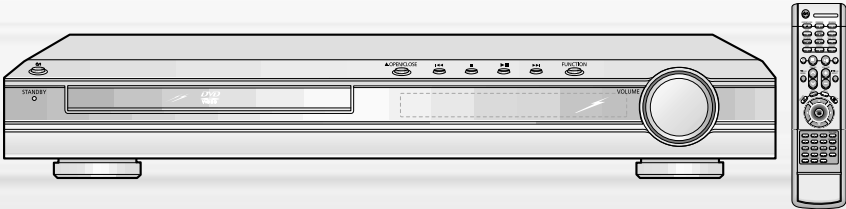
DIGITAL HOME THEATER SYSTEM HT-DB120

THIS APPLIANCE IS MANUFACTURED BY:

Instruction Manual

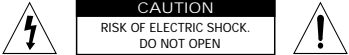


ELECTRONICS



Safety Warnings

CLASS 1 LASER PRODUCT
 KLASSE 1 LASER PRODUKT
 LUOKAN 1 LASER LAITE
 KLAS 1 LASER APPARAT
 PRODUCTO LASER CLASE 1



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

CLASS 1 LASER PRODUCT
 This Compact Disc player is classified as a CLASS 1 LASER product.

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

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.



This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

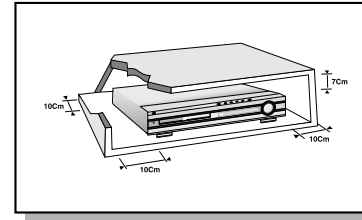


This symbol alerts you to important operating and maintenance instructions accompanying the unit.

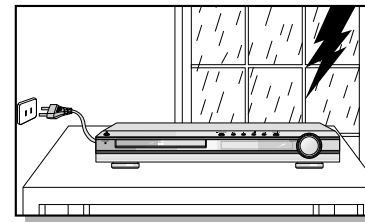
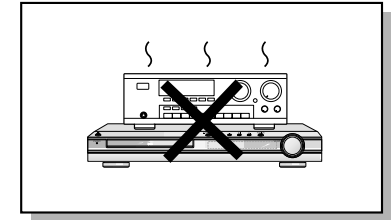
WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

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

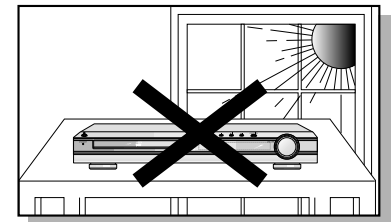
Precautions



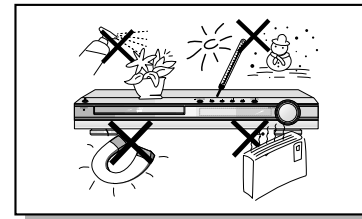
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3–4inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect AC main plug from the wall outlet. Voltage peaks due to lightning could damage the unit.



Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and malfunction of the unit.

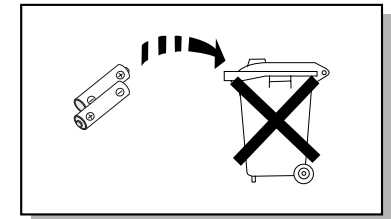


Protect the player from moisture (i.e. vases), and excess heat (e.g. fire-place) or equipment creating strong magnetic or electric fields (i.e. speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

Use of this product is for personal use only.

Condensation may occur if your player or disc have been stored in cold temperatures.

If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The battery used with this product contain chemicals that are harmful to the environment.

Do not dispose of batteries in the general household trash.

Features

Multi-Disc Playback & AM/FM Tuner

The HT-DB120 combines the convenience of multi-disc playback capability, including DVD, CD, MP3-CD, CD-R, CD-RW, and DVD-RW, with a sophisticated AM/FM tuner, all in a single player.

Dolby Pro Logic II

Dolby Pro Logic II is a new form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

DTS (Digital Theater Systems)

DTS is an audio compression format developed by Digital Theater Systems Inc. It delivers full-frequency 5.1 channel sound.

TV Screen Saver Function

The HT-DB120 automatically brightens and darkens the brightness of the TV screen after 2 minutes in the stop or pause mode. The HT-DB120 automatically switches itself into the power saving mode after 20 minutes in the screen saver mode.

Power Saving Function

The HT-DB120 automatically shuts itself off after 20 minutes in the stop or pause mode.

Customized TV Screen Display

The HT-DB120 allows you to select your favorite image during JPEG, DVD playback and set it as your background wallpaper.

Selecting the Video Format

Turn off the main unit and then press **NTSC/PAL**.

- By default, the video format is set to "PAL".
- Each time the button is pressed, the video format switches between "NTSC" and "PAL".
- Each country has a different video format standard.
- For normal playback, the video format of the disc must be the same as the video format of your TV.

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Notes on Discs



DVD (Digital Versatile Disc) offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie theater or concert hall.



DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

Playable Discs

Disc Type	Mark (Logo)	Recorded Signals	Disc Size	Max. Playing Time
DVD		Audio + Video	12cm	Approx. 240 min. (single-sided) Approx. 480 min. (double-sided)
			8cm	Approx. 80 min. (single-sided) Approx. 160 min. (double-sided)
VIDEO-CD		Audio + Video	12cm	74 min.
			8cm	20 min.
AUDIO-CD		Audio	12cm	74 min.
			8cm	20 min.

Do not use the following types of disc!

- LD, CD-G, CD-I, CD-ROM and DVD-ROM cannot be played on this player.
If such discs are played, a **"WRONG DISC FORMAT"** message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
If such discs are played, a **"WRONG REGION CODE"** message appears on the TV screen.

Copy Protection

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods 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.

Disc Recording Format

CD-R Discs

- Depending on the disc recording device (CD-Recorder or PC) and the condition of the disc, some CD-R discs may not be playable.
- Use a 650MB/74 minute CD-R. Avoid CD-RW media, as they may not be playable.
- If possible, do not use CD-RW (Rewritable) media, as they may not be playable.
- Only the CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- If the name of a file is in Korean, the name will be displayed on the TV screen in Korean and * will be shown in the display of the main unit.
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written Multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- If more than 500 tracks are recorded on a single CD, a maximum of 500 tracks can be played.
- If more than 300 folders are recorded on a single CD, a maximum of 300 folders can be played.

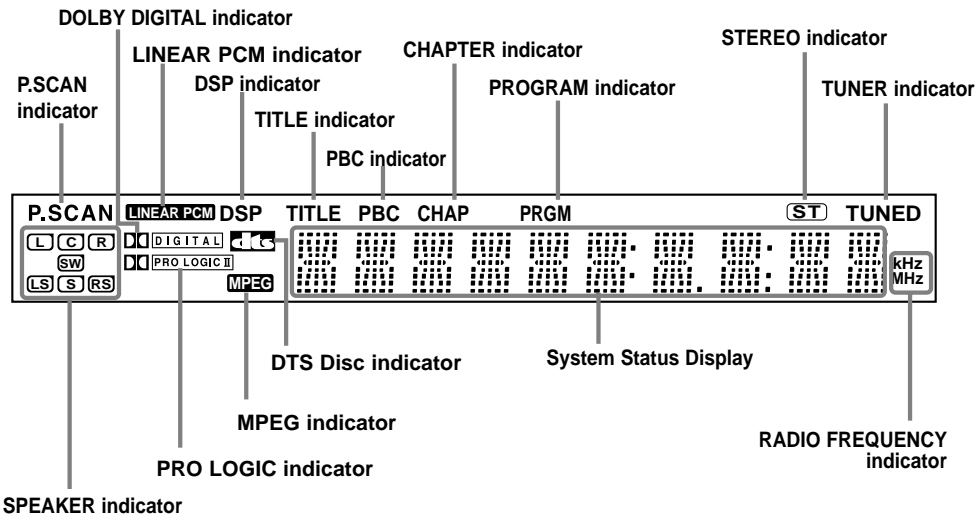
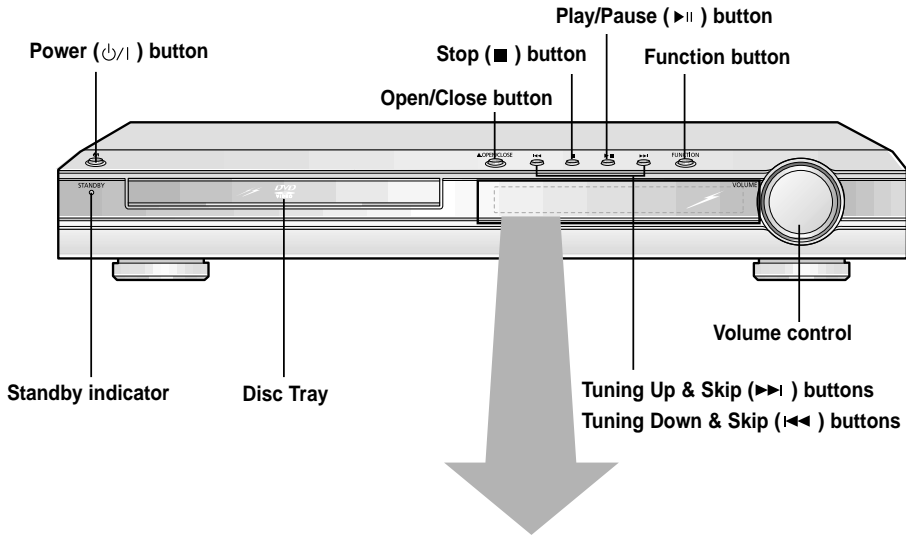
What is MP3?
MP3 is short for MPEG-1 Audio Layer 3 and MPEG is an acronym for Moving Pictures Experts Group. MP3 is a file format with compression ratio of 1:12 (128 Kbps*) That is, you can use MP3 format to record about 12 times the usual amount of data on a regular CD.

CD-R JPEG Discs

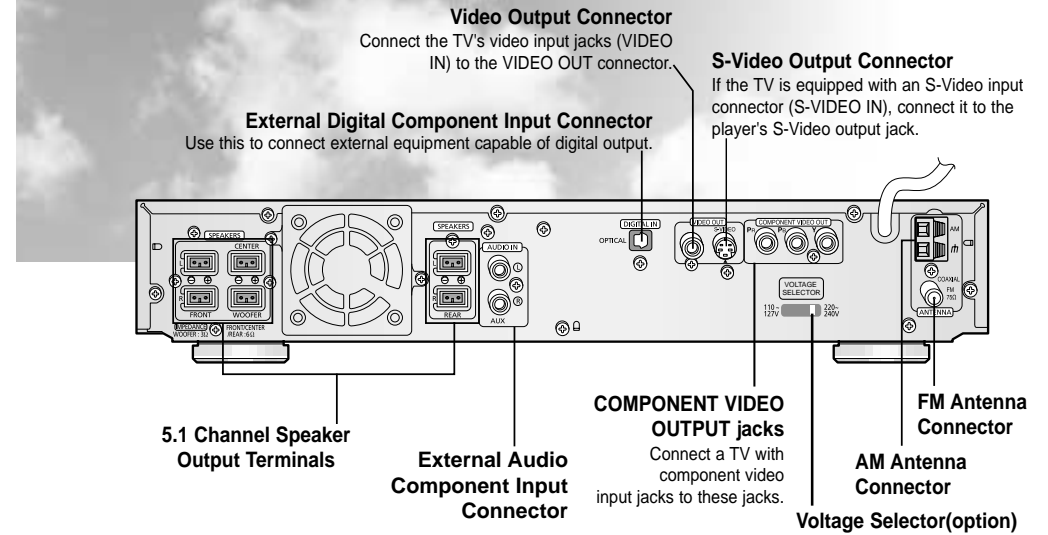
- Only files with the ".jpeg" and ".JPEG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

Description

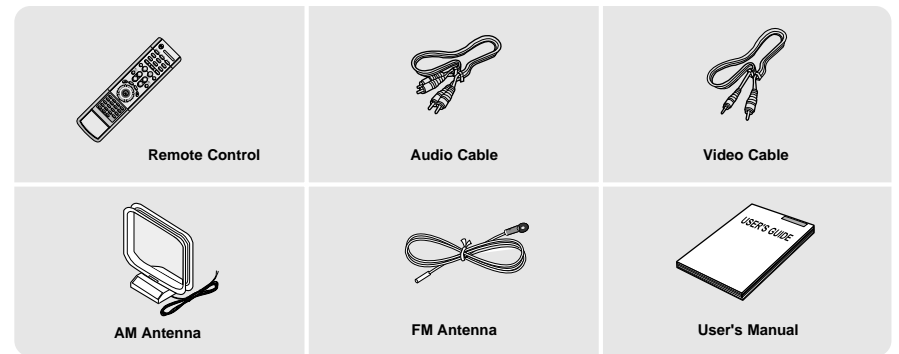
—Front Panel—



—Rear Panel—

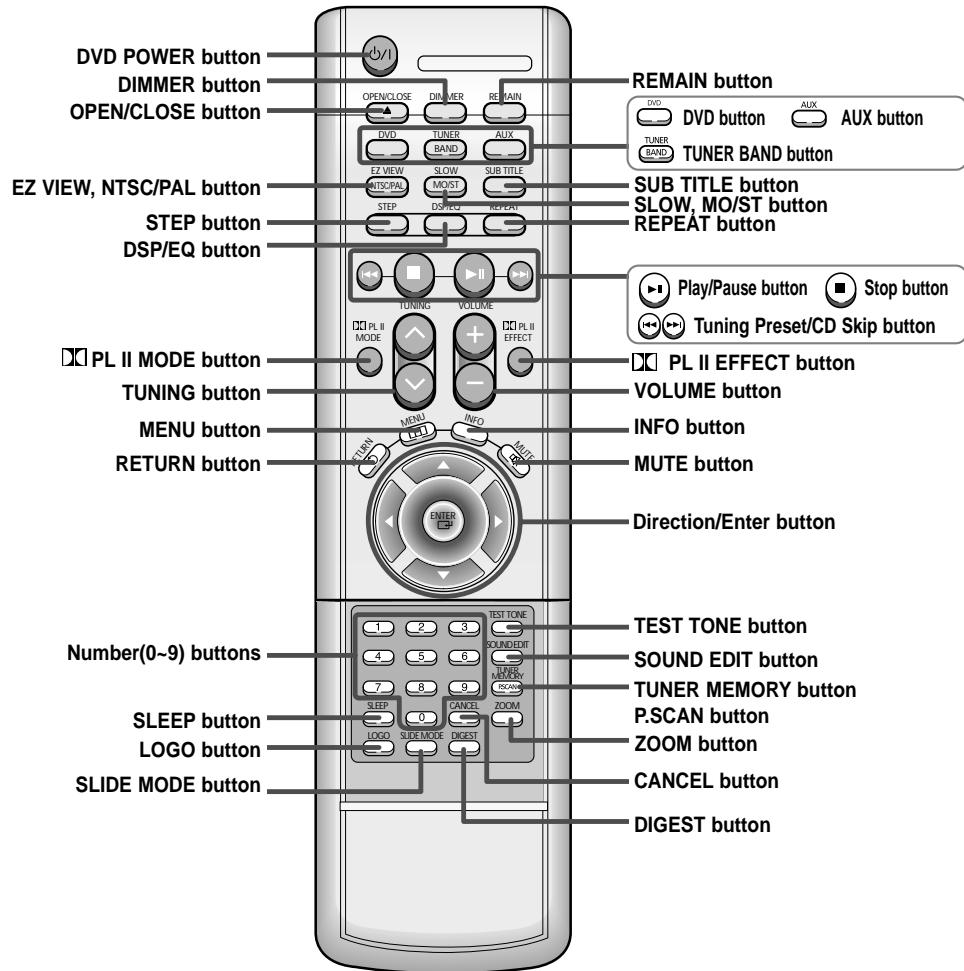


Accessories



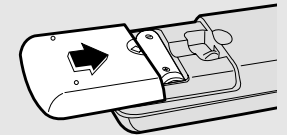
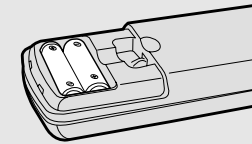
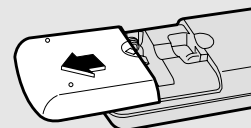
Description

—Remote Control—



Insert Remote Batteries

- 1 Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.
- 2 Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and -).
- 3 Replace the battery cover.

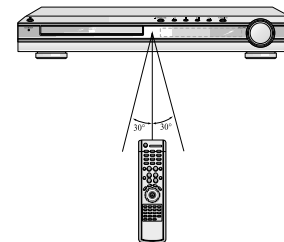


Caution

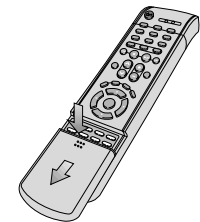
- Follow these precautions to avoid leaking or cracking cells:
- Place batteries in the remote control so they match the polarity:(+) to (+)and (-)to (-).
 - Use the correct type of batteries.Batteries that look similar may differ in voltage.
 - Always replace both batteries at the same time.
 - Do not expose batteries to heat or flame.

Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.

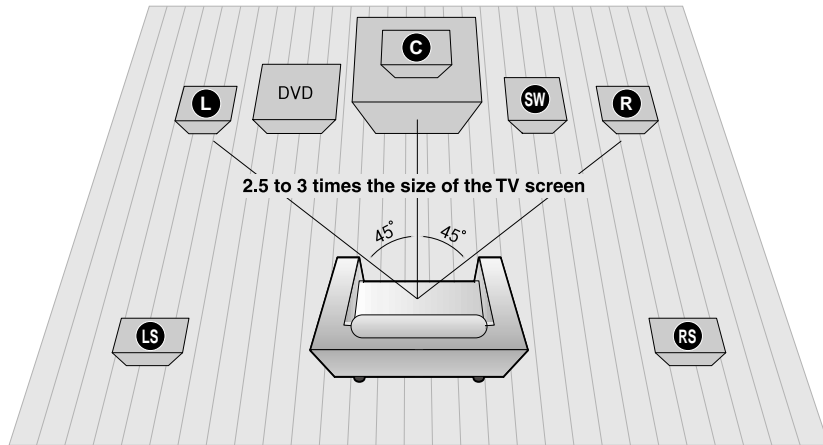


To open the remote control cover, push the top of the cover, then slide downward.



Connecting the Speakers

Before moving or installing the product, be sure to turn off the power and disconnect the power cord.



Position of the DVD Player

- Place it on a stand or cabinet shelf, or under the TV stand.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example: For 32" TVs 2~2.4m (6~8feet)
For 55" TVs 3.5~4m (11~13feet)

Front Speakers **L R**

- Place these speakers in front of your listening position, facing inwards (about 45°) toward you.
- Place the speakers so that their tweeters will be at the same height as your ear.
- Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

Center Speaker **C**

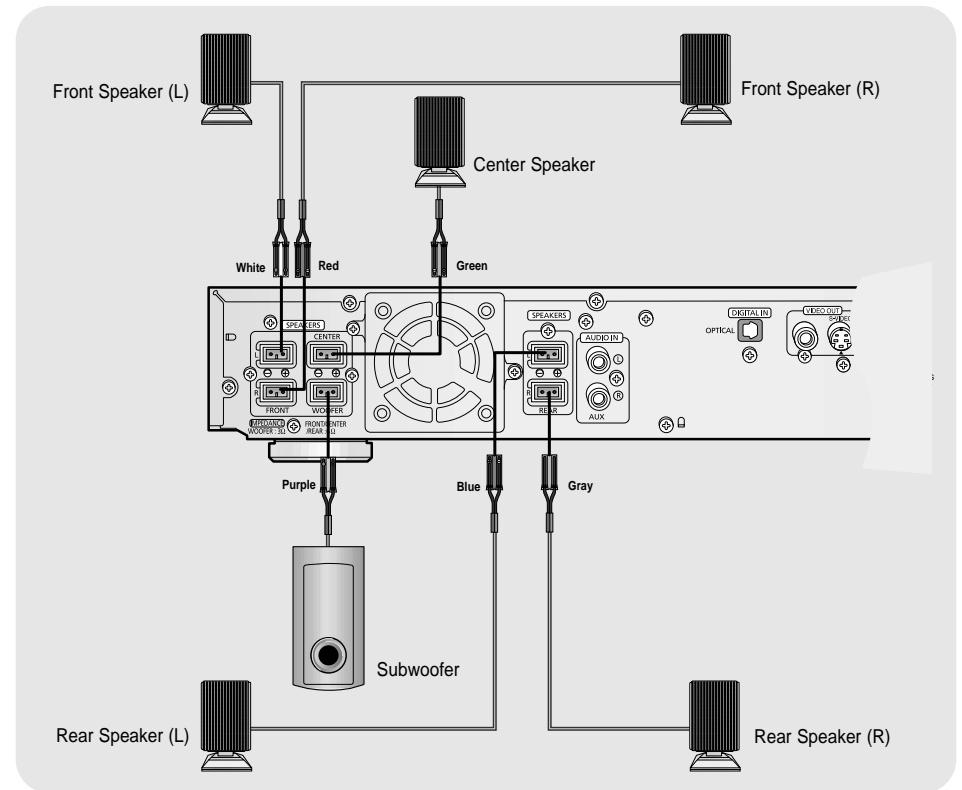
- It is best to install it at the same height as the front speakers.
- You can also install it directly over or under the TV.

Rear Speakers **LS RS**

- Place these speakers behind your listening position.
 - If there isn't enough room, place these speakers to face each other.
 - Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.
- * Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

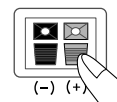
Subwoofer **SW**

- The position of the subwoofer is not so critical. Place it anywhere you like.
- Usually, it is placed by a corner near the front speakers.



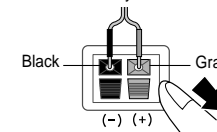
Back of the Speakers

1 Press down the terminal tab on the back of the speaker.



2 Insert the wire into the terminal and release the terminal tab.

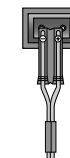
- Insert the black wire into the black (-) terminal and the gray wire into the gray (+) terminal.
- Make sure the polarities (+ and -) are correctly.



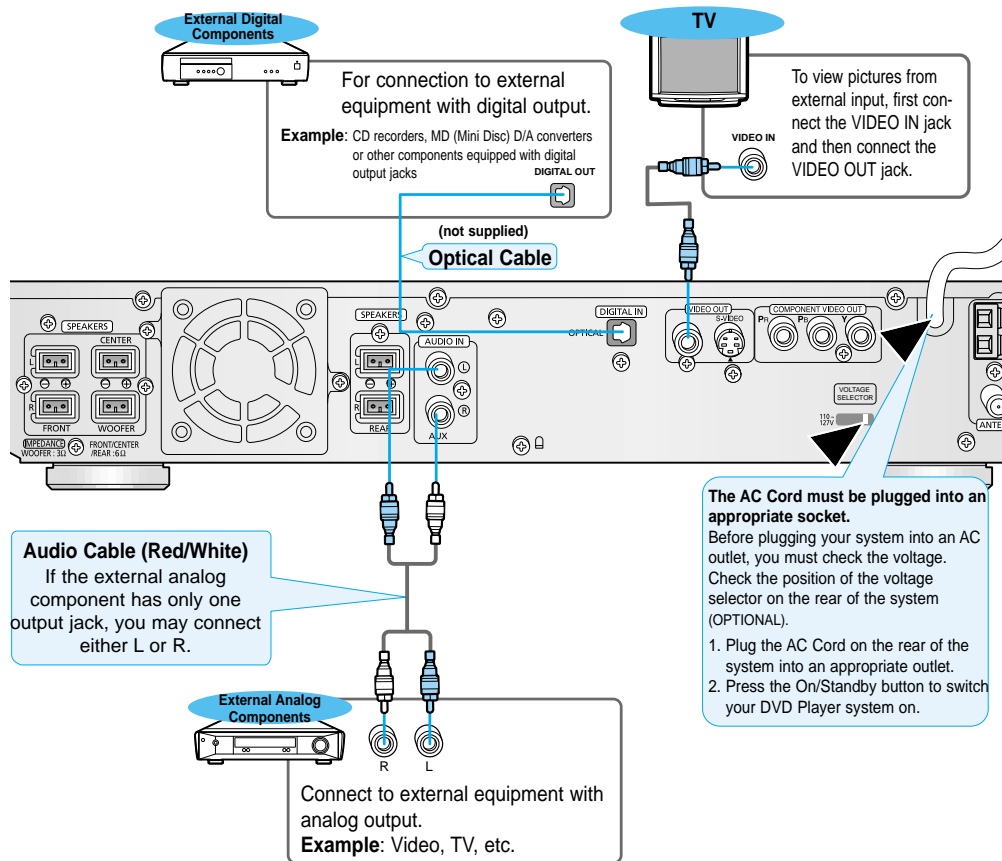
Back of the Main Unit

3 Connect the connecting jacks to the back of the DVD player.

- Make sure the colors of the speaker terminals match the colors of the connecting jacks.
- Make sure the polarities (+ and -) are correctly.



Connecting External Components



Note • Always connect the video and audio connection cables to the equivalent colored jack.

To Play External Digital/Analog Equipment

Press **AUX** on the remote control to select DIGITAL IN, AUX1, or AUX2.

Press **Function** on the main unit to select DIGITAL IN, AUX1, or AUX2.

- Each time the button is pressed the mode switches as follows: FM → AM → DVD → DIGITAL IN → AUX 1 → AUX 2.

P.SCAN(Progressive Scan) Function

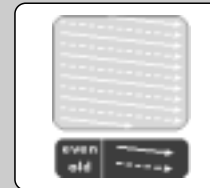
Unlike a regular Interlace Scan in which two fields of picture information are alternated to create the entire picture (odd scan lines, then even scan lines), Progressive Scan uses one field of information (all lines displayed in one pass) to create a clear and detailed picture without visible scan lines. To enjoy a progressive scan video, connect a TV or monitor that supports a progressive scan input to this device.

While the player is in the stop mode, hold the P.SCAN button down for longer than 1 second.

- The selection switches back and forth between "P.SCAN" and "I.SCAN" each time the button is held down for a minimum of 1 second.
- The previous mode is indicated in the display first, followed by the selected mode in about a second.

What is Progressive (or Non-Interlaced) Scanning?

Interlaced Scan (1 FRAME = 2 FIELDS)



In interlaced-scan video, a frame consists of two interlaced fields (odd and even), where each field contains every other horizontal line in the frame. The odd field of alternating lines is displayed first, and then the even field is displayed to fill in the alternating gaps left by the odd field to form a single frame. One frame, displayed every 1/30th of a second, contains two interlaced fields, thus a total of 60 fields are displayed every 1/60th of a second each. The interlaced scanning method is intended for capturing a still object.

Progressive Scan (FULL FRAME)



The progressive scanning method scans one full frame of video consecutively down the screen, line by line. As opposed to the interlaced scanning process by which a video image is drawn in a series of passes, you get an entire image drawn at one time. The progressive scanning method is desirable for dealing with moving objects. A camera that has the ability to capture moving objects is called a "full frame shutter camera".

Note

- This function only works with TV's equipped with component video inputs (Y, P_r, P_b).
- Depending on the brand and model of your TV, this function may not work.

Disc Playback

Displaying Disc Information

You can view playback information on the disc on the TV screen.

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

2 Load a disc.

- Place a disc gently into the tray with the disc's label facing up.

3 Press **OPEN/CLOSE** button to close the disc tray.

DVD VCD CD

- Playback starts automatically.

MP3 JPEG

- Playback starts automatically.
- If the TV is on, a list of MP3s on the CD will appear on the TV screen.



To stop playback, press **STOP** during playback.

- If pressed once, "PRESS PLAY" is displayed and the stop position will be stored in memory. If **PLAY/PAUSE** (▶||) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, "STOP" is displayed, and if **PLAY/PAUSE** (▶||) button is pressed, playback starts from the beginning.

To temporarily pause playback, press **PLAY/PAUSE** during playback.

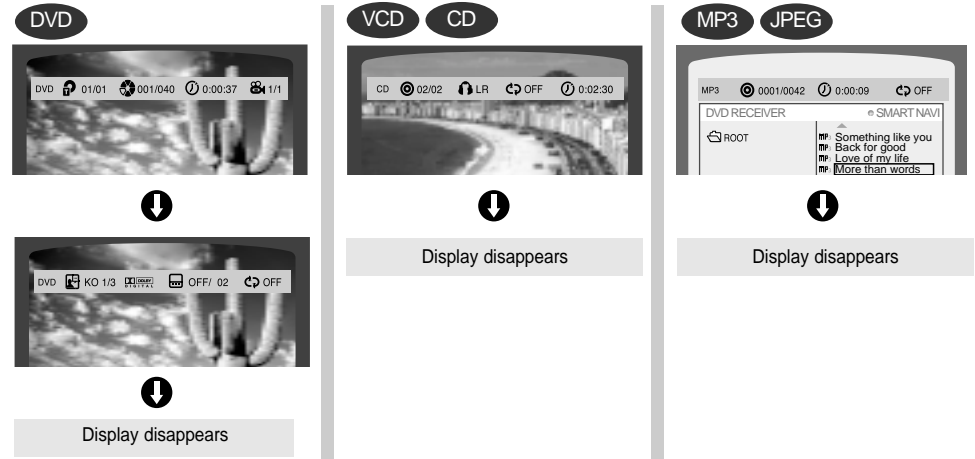
- To resume playback, press **PLAY/PAUSE** button again.

Note

- Depending on the content of the disc, the initial screen may appear different.
- Depending on the recording mode, some MP3-CDs cannot be played.
- Table of contents of a MP3-CD varies depending on the MP3 track format recorded on the disc.

Press **INFO** button.

- Each time the button is pressed, the display changes as follows:



Note

- Depending on the disc, the disc information display may appear different.
- Depending on the disc, you can also select DTS, DOLBY DIGITAL, or PRO LOGIC.

What is a Title?

A movie contained in a DVD disc.

What is a Chapter?

Each title on a DVD disc is divided into several smaller sections called "chapters".

Hand icon appears on the TV screen!

If this symbol appears on the TV screen while buttons are being operated, that operation is not possible with the disc currently being played.

What is a Track (File)?

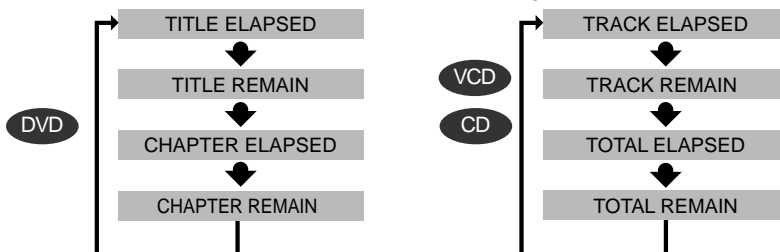
A section of video or a music file recorded on a CD, or MP3-CD.

Checking the Remaining Time

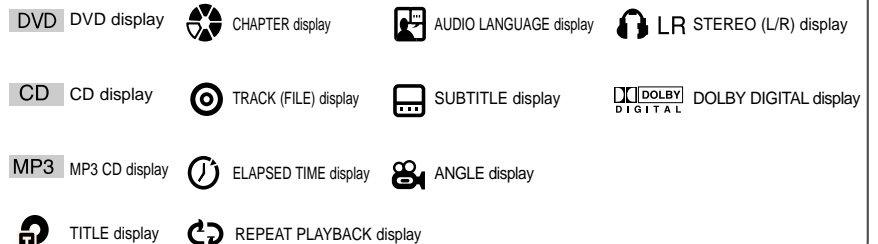
Press the **REMAIN** button.

- For checking the total and remaining time of a title or chapter being played.

Each time the **REMAIN** button is pressed



Screen Display

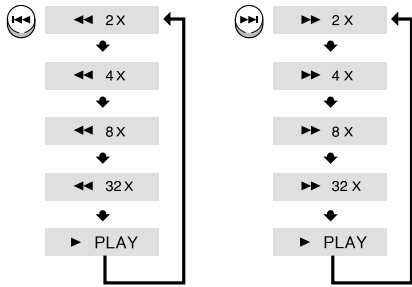


Fast/Slow Playback

Fast Playback DVD VCD CD MP3

Press and hold **⏮** **⏭** .

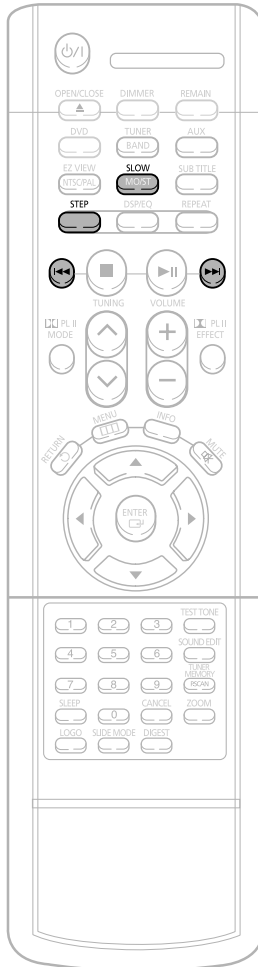
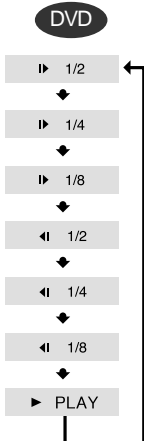
- Each time the button is held down during playback,



Slow Playback

Press **SLOW** button.

- Each time the button is pressed during playback, the playback speed changes as follows:

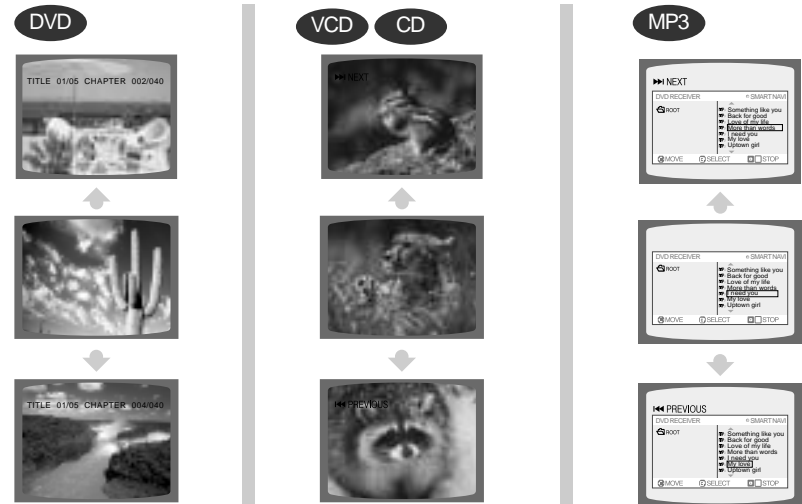


Skipping Scenes/Songs

DVD VCD CD MP3

Briefly press **⏮** **⏭** .

- Each time the button is pressed briefly during playback, the previous or next chapter, track, or directory (file) will be played.
- But, you cannot skip chapters consecutively.



- When watching a VCD with a track longer than 15 minutes, each time **⏮** **⏭** is pressed, playback will skip back or forward 5 minutes.

Playing Frame by Frame DVD

Press **STEP** button.

- The picture moves forward one frame each time the button is pressed during playback.



Note

- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.
- No sound is heard during slow playback and step motion playback.

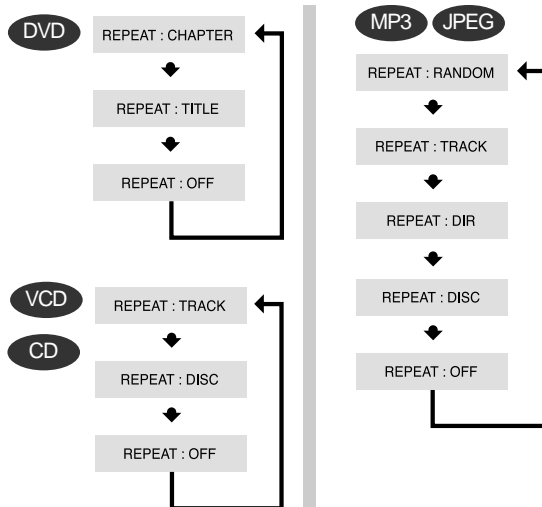
Repeat Playback

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).

DVD VCD CD MP3 JPEG

Press **REPEAT** button.

- Each time the button is pressed during playback, the repeat playback mode changes as follows:



Repeat Playback Options

- CHAPTER**
Repeatedly plays the selected chapter.
- TITLE**
Repeatedly plays the selected title.
- RANDOM**
Plays tracks in random order.
(A track that has already been played may be played again.)
- TRACK**
Repeatedly plays the selected track.
- FOLDER**
Repeatedly plays all tracks in the selected folder.
- DISC**
Repeatedly plays the entire disc.
- OFF**
Cancels Repeat Playback.

To Select a Repeat Playback Mode in the Disc Information Screen

- Press **INFO** button twice.
- Press Cursor **▶** button to move to REPEAT PLAYBACK display.
- Press Cursor **▼** button to select the desired Repeat Playback mode.
- Press **ENTER** button.

* For MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.



A-B Repeat Playback

DVD VCD CD

- Press **INFO** button twice.

- For a CD, press **INFO** button once.



- Press Cursor **▶** button to move to REPEAT PLAYBACK display.



- Press Cursor **▲**, **▼** buttons to select 'A-' and then press **ENTER** button at the beginning of the desired segment.

- When **ENTER** button is pressed, the selected position will be stored in memory.



- Press **ENTER** button at the end of the desired

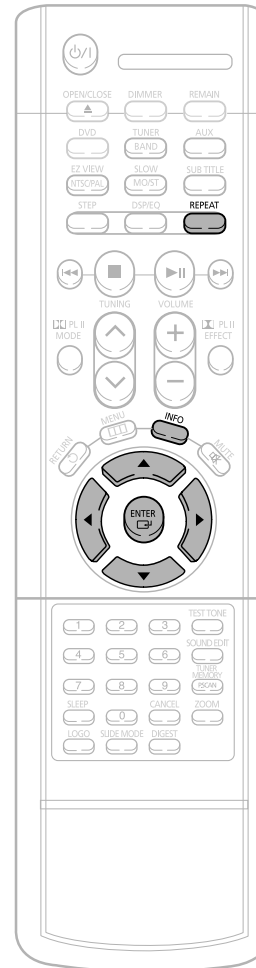
- The specified segment will be played repeatedly.



- To return to normal playback, press Cursor **▲**, **▼** buttons to select **OFF**.

Note

- The A-B Repeat function will not work on an MP3 or JPEG disc.



Angle Function

This function allows you to view the same scene in different angles.

DVD

1 Press **INFO** button.

2 Press **Cursor ▶** button to move to **ANGLE** display.

DVD 01/01 001/040 0:00:37 1/3

DVD 01/01 001/040 0:00:37 1/3

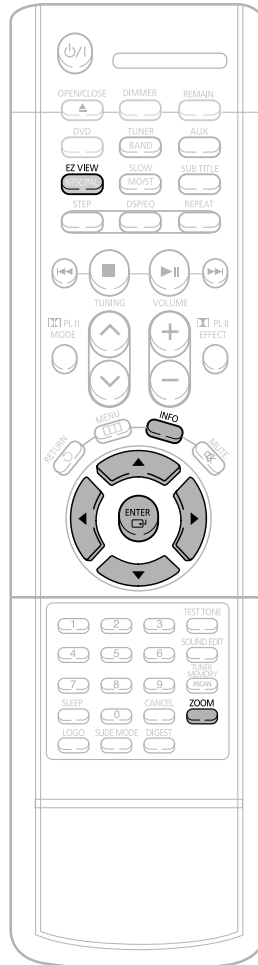
3 Press **Cursor ▲, ▼** buttons or **numeric buttons** to select the desired angle.

• Each time the button is pressed, the angle changes as follows:

DVD 01/01 001/040 0:00:37 1/3



Note • The Angle function works only with discs on which multiple angles have been recorded.



Zoom Function

This function allows you to enlarge a particular area of the displayed image.

Zoom (Screen Enlarge) Function

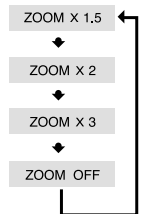
DVD VCD

1 Press **ZOOM** button.

2 Press **Cursor ▲, ▼, ◀, ▶** buttons to move to the area you want to enlarge.

3 Press **ENTER** button.

• Each time the button is pressed, the zoom level changes as follows:

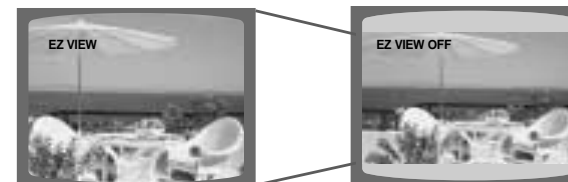


Aspect Ratio

DVD VCD

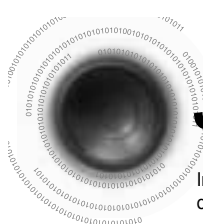
Press **EZ VIEW** button.

- Each time the button is pressed, the zoom function will switch between On and Off.
- When a movie is played in Widescreen format, black bars at the top and bottom of the TV screen can be removed by pressing the **EZ VIEW** button.



Note

- This function will not work if the DVD is recorded with multi-camera angle format.
- Black bars may not disappear because some DVD discs have a built-in horizontal to vertical ratio.



JPEG File Playback JPEG

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this DVD player.

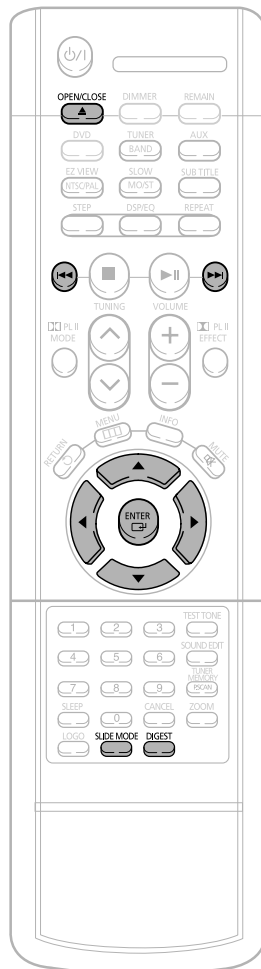
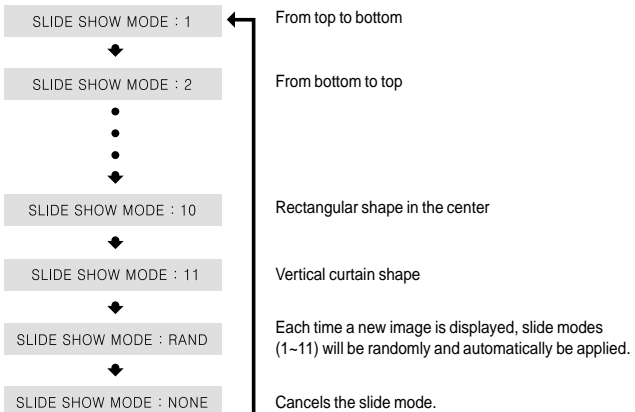
Slide Mode

1 Place the JPEG disc on the disc tray.

2 Press the **OPEN/CLOSE** button.

3 Press **SLIDE MODE** button.

- Playback starts automatically.
- Each time the button is pressed, the image makes the transition as follows:



Press **I◀▶I** to skip to the next slide.

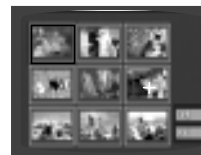
- Each time the button is pressed, the slide moves backward or forward.

Digest Function

You can view 9 JPEG images on the TV screen.

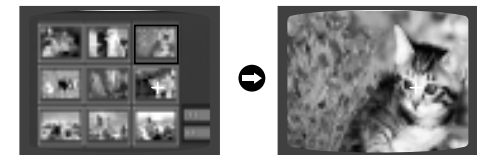
1 Press **DIGEST** button during playback.

- JPEG files will be shown in 9 windows.



2 Press Cursor **▲, ▼, ◀, ▶** buttons to select the desired image and then press **ENTER** button.

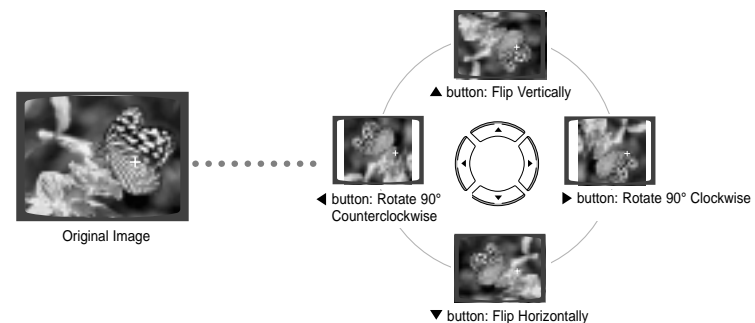
- The selected image is played for 5 seconds before moving to the next image.



To view the previous or next image with 9 windows, press **I◀▶I**.

Rotate/Flip Function

Press Cursor **▲, ▼, ◀, ▶** buttons during playback.



Using Disc Menu

You can use the menus for the audio language, subtitle language, profile, etc. DVD menu contents differ from disc to disc.

Using the Title Menu

For DVDs containing multiple titles, you can view the title of each movie. Depending on the disc, this function may either not work at all or may work differently.

DVD

1 Press **MENU** button.



2 Press Cursor **▲**, **▼** buttons to move to 'DISC MENU' and then press **ENTER** button.

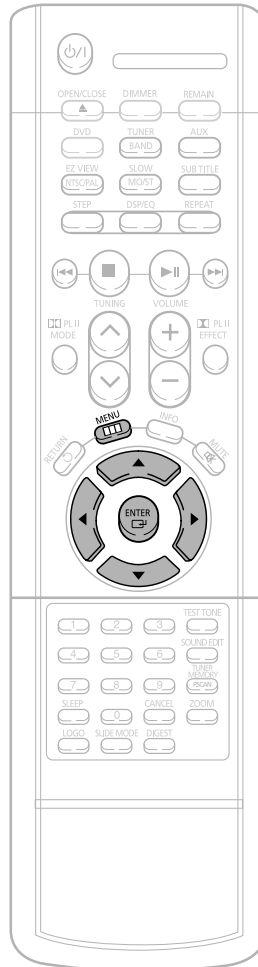
- When you select the disc menu that is not supported by the disc, the "This menu is not supported" message appears on the screen.



3 Press Cursor **▲**, **▼**, **◀**, **▶** buttons to select the desired item.



4 Press **ENTER** button.



DVD

1 Press **MENU** button.



2 Press Cursor **▲**, **▼** button to move to 'Title Menu'.



3 Press **ENTER** button.

- The title menu appears.

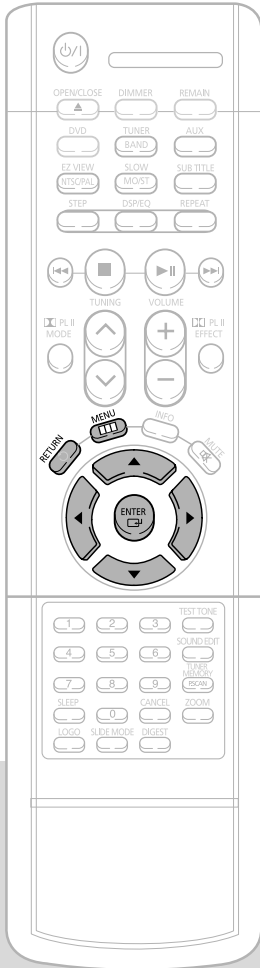


Press **MENU** button to exit the setup screen.

OPERATION

Setting the Language

OSD language is set to English by default.



1 Press **MENU** button.



2 Press Cursor **▼** button to move to 'Setup' and then press **ENTER** button.



3 Press **ENTER** button.



4 Press Cursor **▲, ▼** button to select the desired item and then press **ENTER** button.



5 Press Cursor **▲, ▼** button to select the desired language and then press **ENTER** button.

- Once the setup is complete, if the language was set to English, OSD will be displayed in English.



Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.



Selecting the OSD Language



Selecting the Audio Language (recorded on the disc)



Selecting the Subtitle Language (recorded on the disc)

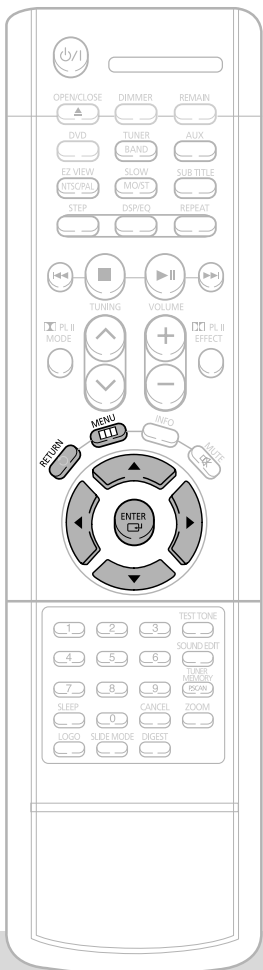


Selecting the Menu Language (recorded on the disc)

* If the language you selected is not recorded on the disc, menu language will not change even if you set it to your desired language.



Setting TV Screen type



1 Press **MENU** button.



2 Press Cursor **▼** button to move to 'Setup' and then press **ENTER** button.



3 Press Cursor **▼** button to move to 'TV DISPLAY' and then press **ENTER** button.



4 Press Cursor **▲,▼** button to select the desired item and then press **ENTER** button.



- Once the setup is complete, you will be taken to the previous screen.

Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TVs is 4:3, while that of widescreen and high definition TVs is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen size, you should adjust the aspect ratio to fit your TV or monitor.

- ★ For a standard TV, select either "4:3LB" or "4:3PS" option according to personal preference. Select "16:9" if you have a widescreen TV.

WIDE

- : Select this to view a 16:9 picture in the full-screen mode on your widescreen TV.
- You can enjoy the widescreen aspect.



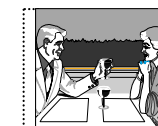
4:3LB
(4:3 Letterbox)

- : Select this to play a 16:9 picture in the letter box mode on a conventional TV.
- Black bars will appear at the top and bottom of the screen.



4:3PS
(4:3 Pan&Scan)

- : Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.
- You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).



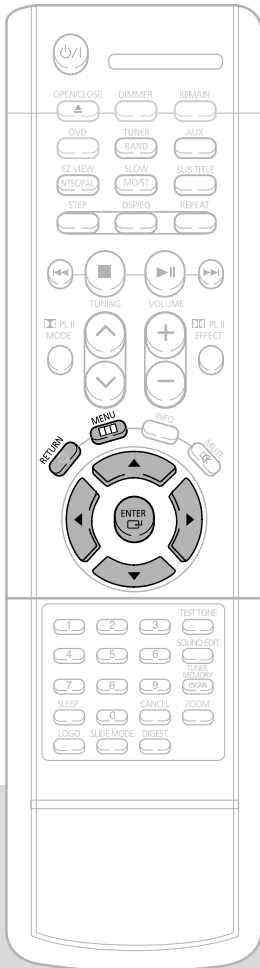
- Note**
- If a DVD is in the 4:3 ratio, you cannot view it in widescreen.
 - Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Setting Parental Controls (Rating Level)

Use this to restrict playback of adult or violent DVDs you do not want children to view.



1 Press **MENU** button.



2 Press Cursor **▼** button to move to 'Setup' and then press **ENTER** button.



3 Press Cursor **▼** button to move to 'PARENTAL' and then press **ENTER** button.



4 Press Cursor **▲, ▼** button to select the desired rating level and then press **ENTER** button.

- If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
- The higher the level, the closer the content is to violent or adult material.



5 Enter the password and then press **ENTER** button.

- The password is set to "7890" by default.
- Once the setup is complete, you will be taken to the previous screen.



Note

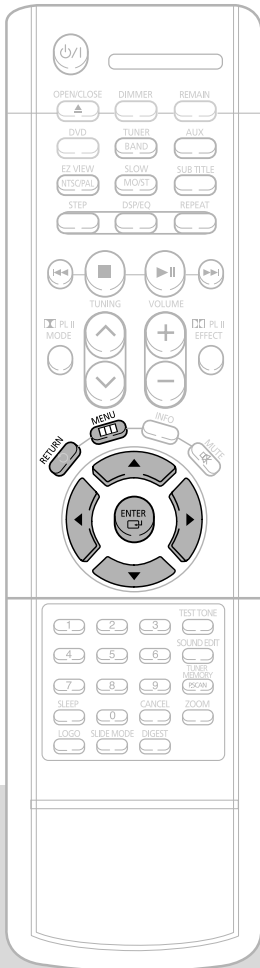
- This function works only if a DVD disc contains the rating level information.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Setting the Password

You can set the password for the Parental (rating level) setting.



1 Press **MENU** button.



2 Press Cursor **▼** button to move to 'Setup' and then press **ENTER** button.



3 Press Cursor **▼** button to move to 'PASSWORD' and then press **ENTER** button.



4 Press **ENTER** button.



5 Enter the password and then press **ENTER** button.

- Enter the old password, a new password, and confirm new password.
- The setting is complete.



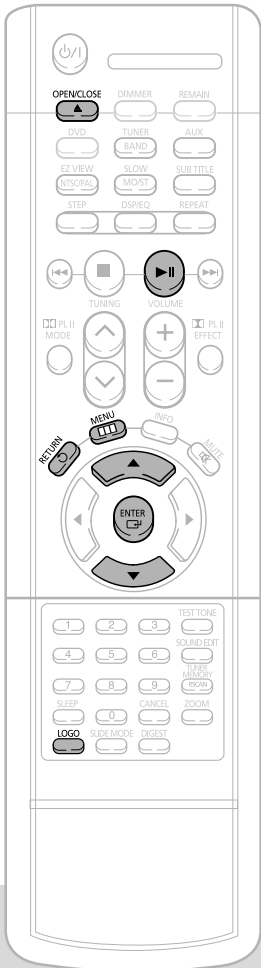
Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Setting the Wallpaper

JPEG DVD VCD

While watching a DVD or JPEG CD, you can set the image you like as a wallpaper.



1 During playback, press **PLAY/PAUSE** button when the image you like comes up.



2 Press **LOGO** button.

• "LOGO COPYING" will be displayed on the TV screen followed by "LOGO COPIED".



3 Press **MENU** button.



4 Press **Cursor** ▼ button to move to 'Setup' and then press **ENTER** button.



5 Press **Cursor** ▼ button to move to 'LOGO' and then press **ENTER** button.



6 Press **Cursor** ▼ button to move to 'USER' and then press **ENTER** button.



7 Press **MENU** button to exit the setup screen.

8 Press **OPEN/CLOSE** button to open and then close the disc tray.

Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.



Select this to set the Samsung Logo image as your wallpaper.



Select this to set the desired image as your wallpaper.

To Change the Wallpaper

JPEG DVD VCD

1 During playback, press **PLAY/PAUSE** button when you see an image you like.



2 Press **LOGO** button.
• "LOGO COPYING" will be displayed on the TV screen followed by "LOGO COPIED".



3 Press **OPEN/CLOSE** button to open and then close the disc tray.
• The wallpaper is changed.

Setting the Speaker Mode

1 Press **MENU** button.



2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.

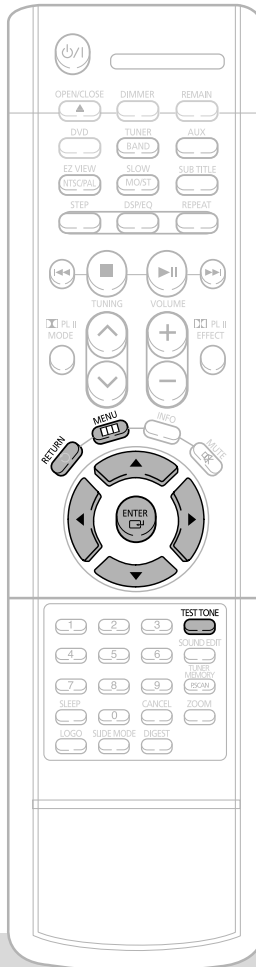


3 In the Speaker Setup, press the **ENTER** button again.



4 Press Cursor ▲, ▼, ◀, ▶ buttons to move to the desired speaker and then press **ENTER** button.

- For C, LS, and RS, each time the button is pressed, the mode switches alternately as follows: SMALL → NONE.
- For L and R, the mode is set to SMALL.



SMALL : Select this when using the speakers.
NONE : Select this when no speakers are installed.

Note

- With **PL** (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time is set between 00 and 15mSEC.
- Depending on PRO LOGIC and STEREO, the speaker mode may vary.

Setting the Test Tone

1 Press **MENU** button.



2 Press Cursor ▼ button to move to 'Audio' and then press **ENTER** button.



3 Press Cursor ▼ button to move to 'TEST TONE' and then press **ENTER** button.

- The test tone will be sent to L → C → R → RS → LS → SW in that order. If the button is pressed again at this time, the test tone will stop.



Press **RETURN** button to return to the previous level.

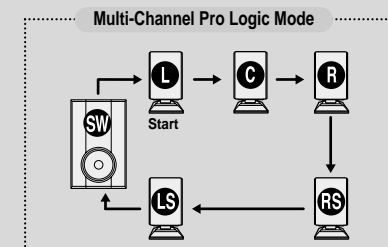
Press **MENU** button to exit the setup screen.

When manually testing using the **TEST TONE** button

L: Front Speaker (L) C: Center Speaker SW: Subwoofer
 R: Front Speaker (R) LS: Rear Speaker (L) RS: Rear Speaker (R)

Press **TEST TONE** button.

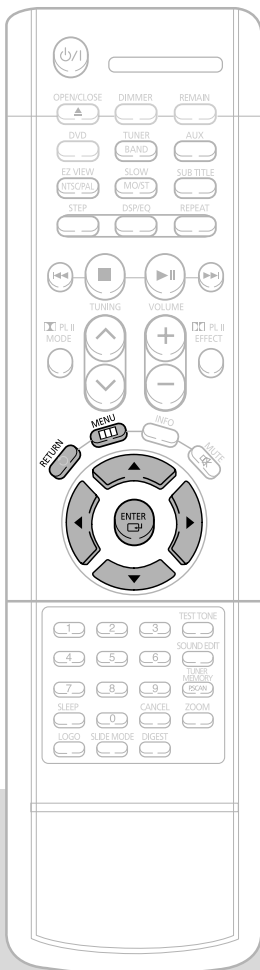
- Test tone will be produced as follows: When playing a DVD or CD, this will work only in Stop mode.
- Use this function to check that each speaker is correctly connected and that there is no problem.



To end the test tone, press **TEST TONE** button.



Setting the Delay Time



1 Press **MENU** button.



2 Press **Cursor** \blacktriangledown button to move to 'Audio' and then press **ENTER** button.



3 Press **Cursor** \blacktriangledown button to move to 'DELAY TIME' and then press **ENTER** button.



4 Press **Cursor** \blacktriangle , \blacktriangledown , \blacktriangleleft , \blacktriangleright buttons to move to the desired speaker and then press **ENTER** button.



5 Press **Cursor** \blacktriangleleft , \blacktriangleright to set the Delay time.

- You can set the delay time for C between 00 and 05mSEC and for LS and RS between 00 and 15mSEC.



Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Center Speaker and Surround Speakers.

• Setting CENTER SPEAKER

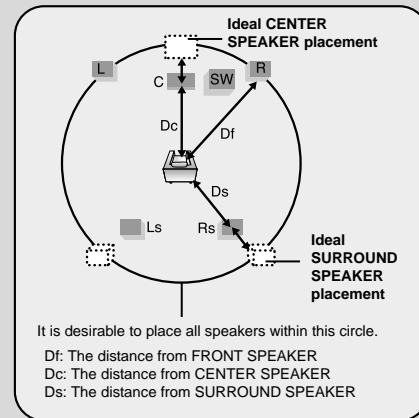
If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between Df and Dc	Delay Time
50	1.3 ms
100	2.6 ms
150	3.9 ms
200	5.3 ms

• Setting REAR (SURROUND) SPEAKERS

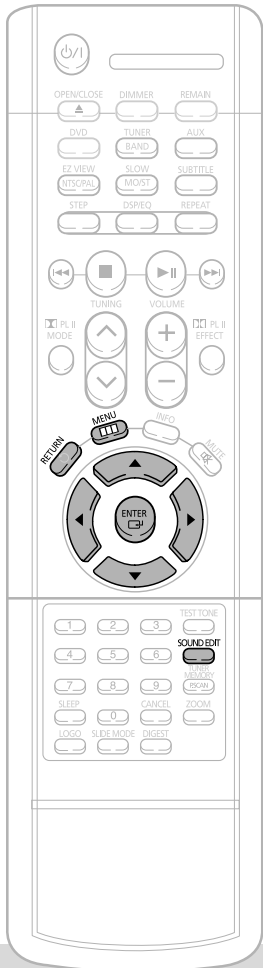
If the distance of Df is equal to the distance of Ds in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

Distance between Ds and Dc	Delay Time
200	5.3 ms
400	10.6 ms
600	15.9 ms



Setting the Audio Quality

You can adjust the balance and level for each speaker.



Method 1 When adjusting the audio quality using the setup screen

1 Press **MENU** button.



2 Press **Cursor** ▼ button to move to 'Audio' and then press **ENTER** button.



3 Press **Cursor** ▼ button to move to 'SOUND EDIT' and then press **ENTER** button.



4 Press **Cursor** ▲, ▼, ◀, ▶ buttons to select the desired item and then press **ENTER** button.



Method 2 When manually adjusting with the SOUND EDIT button

Adjusting Front Speaker Balance

1 Press **SOUND EDIT** button and then press **Cursor** ◀, ▶.



Adjusting Rear Speaker Balance

2 Press **SOUND EDIT** button and then press **Cursor** ◀, ▶.



Adjusting Center Speaker Level

3 Press **SOUND EDIT** button and then press **Cursor** ◀, ▶.



Adjusting Rear Speaker Level

4 Press **SOUND EDIT** button and then press **Cursor** ◀, ▶.



Adjusting Subwoofer Speaker Level

5 Press **SOUND EDIT** button and then press **Cursor** ◀, ▶.



Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

Note

Adjusting Front/Rear Speaker Balance

- You can select between 00 and -06 and OFF.
- The volume decreases as you move closer to -6.

Adjusting Center/Rear/Subwoofer Speaker Level

- The volume level can be adjusted in steps from +6dB to -6dB.
- The sound gets louder as you move closer to +6dB and smaller as you get closer to -6dB.

Setting the DRC (Dynamic Range Compression)

You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

1 Press **MENU** button.



2 Press Cursor **▼** button to move to 'Audio' and then press **ENTER** button.



3 Press Cursor **▼** button to move to 'DRC' and then press **ENTER** button.



4 Press Cursor **▲, ▼** to adjust the 'DRC'.

- The longer the Cursor **▲** button is held down, the greater the effect, and the longer Cursor **▼** button is held down, the smaller the effect.
- Once the setup is complete, you will be taken to the previous screen.

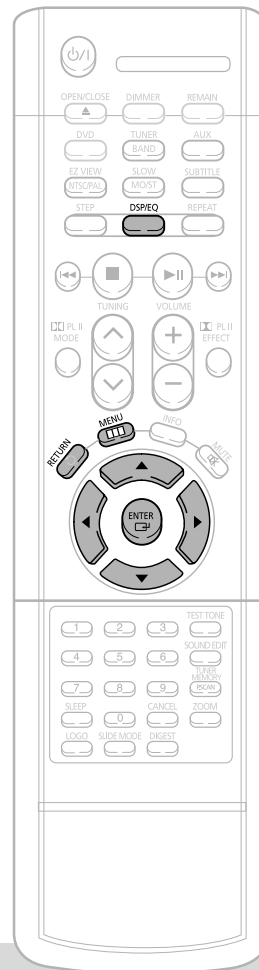


Press **RETURN** button to return to the previous level.

Press **MENU** button to exit the setup screen.

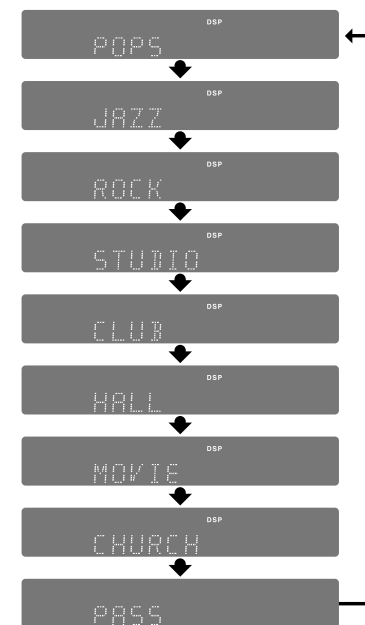
Sound Field (DSP)/EQ Function

DSP(Digital Signal Processor) DSP modes have been designed to simulate different acoustic environments. EQ: You can select from ROCK, POP, or CLASSIC, depending on the genre of music.



Press **DSP/EQ** button.

- "DSP" appears on the display panel.
- Each time the button is pressed, the selection changes as follows:



Note

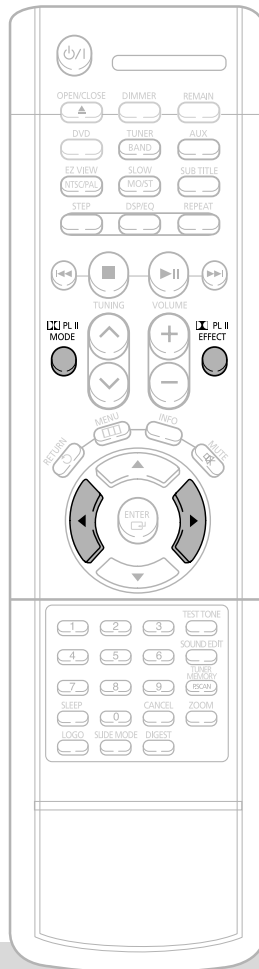
- POP, JAZZ, ROCK:** Depending on the genre of music, you can select from POP, JAZZ, and ROCK.
- STUDIO :** Provides a sense of presence as if in a studio.
- CLUB :** Simulates the sound of a dance club with a throbbing bass beat.
- HALL :** Provides a clear vocal as if listening in a concert hall.
- MOVIE:** Provides the feeling of a movie theater.
- CHURCH:** Gives the feel of being in a grand church.
- PASS:** Select this for normal listening.

Dolby Pro Logic II Mode

You can select the desired Dolby Pro Logic II audio mode.

Press **PL II MODE** button.

- Each time the button is pressed, the mode changes as follows.



Note

- When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to 5.1 channel surround sound.

PRO LOGIC II

- **MUSIC:** When listening to music, you can experience sound effects as if you are listening to the actual performance.
 - **CINEMA:** Adds realism to the movie soundtrack.
 - **PRO LOGIC:** You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
 - **MATRIX:** You will hear 5.1 channel surround sound.
- STEREO:** Select this to listen to sounds from the front left and right speakers and the subwoofer only.

Dolby Pro Logic II Effect

This function works only in Dolby Pro Logic MUSIC mode.

1 Press **PL II EFFECT** button to select 'MUSIC' mode.



2 Press **PL II EFFECT** button and then press Cursor **◀, ▶** buttons to select the mode.

- You can select either 0 or 1.



3 Press **PL II EFFECT** button and then press Cursor **◀, ▶** buttons to select the mode.

- You can select between 0 and 7.



4 Press **PL II EFFECT** button and then press Cursor **◀, ▶** buttons to select the mode.

- You can select between 0 and 6.



Note

- When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and **PL II** (Dolby Pro Logic II) button does not work.

- **PANORAMA:** This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.
- **CENTER WIDTH:** Sound is output to the center speaker only. The front left and right speakers produce phantom sound.
- **DIMENSION:** Incrementally adjusts the sound field (DSP) from the front or rear.

Listening to Radio

You can listen to the chosen band (FM, AM) broadcast stations) by using either the automatic or manual tuning operation.

Presetting Stations

You can store up to:

- ◆ 15 FM stations
- ◆ 15 MW stations

- **FM** Frequency Modulation
- **AM(MW)** Medium Wave

Remote Control Unit

1 Press **TUNER/BAND** button.

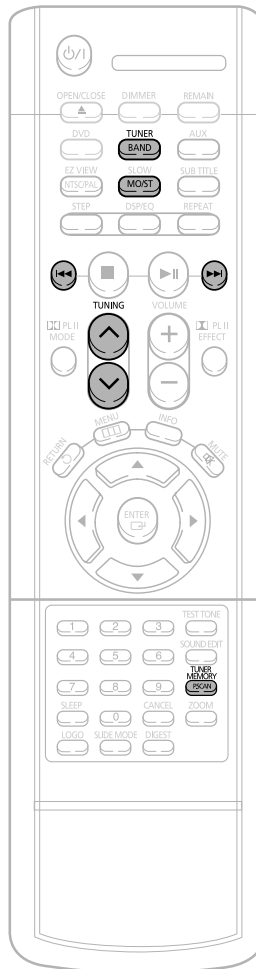
- The selection toggles back and forth between "FM → AM" each time the **TUNER(BAND)** button is pressed.

2 Tune in to the desired station.

Automatic Tuning 1 When **◀▶▶▶▶** is pressed, a preset broadcast station is selected.

Automatic Tuning 2 Press and hold **⏪** to automatically search for active broadcasting stations.

Manual Tuning Briefly press **⏪** to increase or decrease the frequency incrementally.



Example: Presetting FM 89.1 in the memory

1 Press the **TUNER(BAND)** button and select the FM band.

- Each time the button is pressed, the band switches between "FM → AM".



2 Press **⏪** to select "89.10".

- Refer to Step 2 on page 51 to automatically or manually tune in to a station.



3 Press the **TUNER MEMORY** button.

- "PRGM" flashes in the display.



Main Unit

1 Press the **Function** button to select the desired band (FM, AM).

2 Select a broadcast station.

Automatic Tuning 1 Press the **STOP** button to select PRESET and then press **◀▶▶▶▶** button to select the preset station.

Automatic Tuning 2 Press the **STOP** button to select "MANUAL" and then press and hold **◀▶▶▶▶** button to automatically search the band.

Manual Tuning Press **STOP** to select MANUAL and then briefly press **◀▶▶▶▶** to tune in to a lower or higher frequency.

4 Press **◀▶▶▶▶** to select preset number.

- You can select between 1 and 15.



5 Press the **TUNER MEMORY** button.

- Press the **TUNER MEMORY** button before 'PRGM' disappears from the display.
- 'PRGM' disappears from the display and the station is stored in memory.



6 To preset another station, repeat steps 2 to 5.

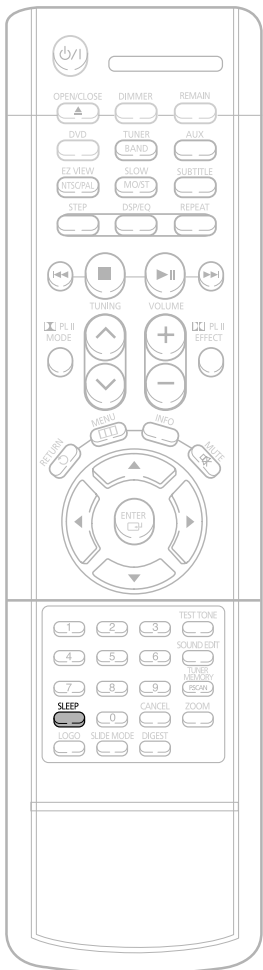
Press **MO/ST** button to listen in Mono/Stereo. (This applies only when listening to an FM station.)

- Each time the button is pressed, the sound switches between "STEREO" and "MONO".
- In a poor reception area, select MONO for a clear, interference-free broadcast.

To tune in to a preset station, press **◀▶▶▶▶** on the remote control to select a channel.



Convenient Functions



Sleep Timer Function

You can set the time that the DVD player will shut itself off.

Press **SLEEP** button.

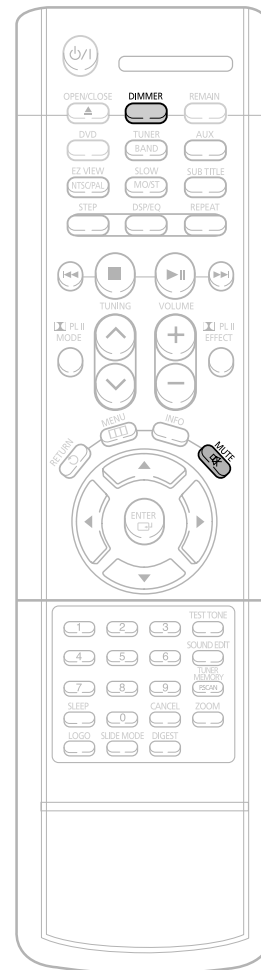
- "SLEEP" will be displayed. Each time the button is pressed the preset time changes as follows: 10 → 20 → 30 → 60 → 90 → 120 → 150 → OFF.



To confirm the sleep timer setting, press **SLEEP** button.

- The remaining time before the DVD player will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.

To cancel the sleep timer, press **SLEEP** button until OFF appears on the display.



Adjusting Display Brightness

You can adjust the brightness of the display on the main unit so it won't interfere with your movie viewing.

Press **DIMMER** button.

- Each time the button is pressed, the brightness changes as follows: **SLIGHTLY DARK** → **DARK** → **BRIGHT**.

Mute Function

This is useful when answering a doorbell or telephone call.

Press **MUTE** button.

- 'MUTE' flash in the display.
- To switch the sound back on (at the same volume as before), press **MUTE** again or the **VOLUME** buttons.







Before Calling for Service

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Electronics Service Center.

Symptom	Check/Remedy
Disc tray does not open.	<ul style="list-style-type: none"> • Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
Playback does not start.	<ul style="list-style-type: none"> • Check the region number of the DVD. DVD discs purchased from abroad may not be playable. • CD-ROMs and DVD-ROMs cannot be played on this DVD player. • Make sure that the rating level is correct.
Playback does not start immediately when the Play/Pause button is pressed.	<ul style="list-style-type: none"> • Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	<ul style="list-style-type: none"> • No sound is heard during fast playback, slow playback, and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Sound can be heard only from a few speakers and not all six.	<ul style="list-style-type: none"> • When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing PRO LOGIC II (Dolby Pro Logic II) on the remote control to use all six speakers. • Make sure that the DVD disc is 5.1-CH compatible. • If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the center speaker and the front left and right speakers. Set C, SL, and SR to SMALL.
Picture does not appear, sound is not produced, or the disc tray opens 2 to 5 seconds later.	<ul style="list-style-type: none"> • Was the DVD player suddenly moved from a cold place to a warm one? When condensation forms inside the player, remove the disc and let the player stand for 1 or 2 hours with the power on. (You can use the player again after condensation disappears.)
Dolby Digital 5.1 CH Surround Sound is not produced.	<ul style="list-style-type: none"> • Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound. • Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display?

Symptom	Check/Remedy
<ul style="list-style-type: none"> • Disc is rotating but no picture is produced. • Picture quality is poor and picture is shaking. 	<ul style="list-style-type: none"> • Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.
The remote control does not work.	<ul style="list-style-type: none"> • Is the remote control being operated within its operation range of angle and distance? • Are the batteries exhausted? • Have you select the mode(TV/DVD) functions of the remote control (TV or DVD) correctly?
Audio language and subtitles do not work.	<ul style="list-style-type: none"> • Audio language and subtitles will not work for DVDs not containing them. And depending on the disc, they may work differently.
Menu screen does not appear even when the menu function is selected.	<ul style="list-style-type: none"> • Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	<ul style="list-style-type: none"> • You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function.
Can't receive radio broadcast.	<ul style="list-style-type: none"> • Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.
<ul style="list-style-type: none"> • The main unit is not working. (Example: The power goes out or strange noise is heard.) • The DVD player is not working normally. 	<ul style="list-style-type: none"> • Turn off the power and hold the  button on the main unit for longer than 5 seconds. <p>Using the RESET function will erase all stored settings. Do not use this unless necessary.</p>
The password for rating level has been forgotten.	<ul style="list-style-type: none"> • While "NO DISC" message appears on the display of main unit, hold the main unit's  button for longer than 5 seconds. "INITIAL" appears on the display and all settings will return to the default values. • Press the POWER button. <p>Using the RESET function will erase all stored settings. Do not use this unless necessary.</p>

Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause breaks in playback. Be especially careful not to scratch discs when handling them.

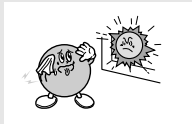
● Handling discs



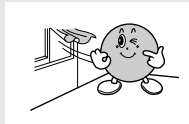
Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

● Disc Storage

Do not keep in direct sunlight



Keep in a cool ventilated area



Keep in a clean Protection jacket. Store vertically.



Caution

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked discs or discs that are scratched.

● Handling and Storing Discs



When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

- When cleaning, wipe gently from the inside to the outside of the disc.

Note






- Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

Specifications

GENERAL	Power Consumption	110W	
	Weight	6.3Kg	
	Dimensions (W x H x D)	360 x 65 x 408 mm	
	Operating Temperature Range	+5°C~+35°C	
	Operating Humidity Range	10%~75%	
FM TUNER	Usable Sensitivity	10dB	
	S/N Ratio	60dB	
	Distortion	0.5%	
AM (MW) TUNER	Usable Sensitivity	54dB	
	S/N Ratio	40dB	
	Distortion	2%	
VIDEO OUTPUT	Composite Video	1.0Vp-p(75Ω load)	
	Component Video	Y:1.0Vp-p(75Ω load)	
		Pr:0.7Vp-p(75Ω load) Pb:0.7Vp-p(75Ω load)	
AMPLIFIER	Front speaker output	40W(6Ω)/CH	
	Center speaker output	40W(6Ω)	
	Rear speaker output	40W(6Ω)/CH	
	Subwoofer speaker output	50W(3Ω)	
	Frequency range	20Hz~20KHz	
	S/N Ratio	75dB	
	Channel separation	50dB	
Input sensitivity	(AUX)500mV		
SPEAKER	Speaker system	5.1ch speaker system	
		Front/Center/Rear speaker	Subwoofer speaker
	Impedance	6Ω x 5	3Ω
	Frequency range	150Hz~20KHz	30Hz~150Hz
	Output sound pressure level	82dB/W/M	85dB/W/M
	Rated input	40W	50W
	Maximum input	80W	100W
	Dimensions (W x H x D)	77 x 132 x 87 mm	180 x 320 x 410 mm
Weights	0.3 Kg	6.1 Kg	

Notes on Terminology

Memo

ANGLE	Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left, from the right, etc.). With such discs, the Angle button can be used to change the angle of view for specific scenes.
CHAPTER NUMBER	These numbers are recorded on DVD discs. A Title is subdivided into many sections, each of which is numbered, and specific parts of the video can be searched quickly using these numbers.
DVD	A high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG-2) and high-density recording technology, a DVD disc comprises two 0.6 mm thick discs bonded together.
PCM	An acronym for Pulse Code Modulation - another name for digital audio.
REGION NUMBER	Both the DVD player and DVD discs are encoded with a region number. If the region number on the DVD disc does not correspond to the region number of the DVD player, the player cannot play the disc.
SUBTITLES	Translated appearing at the bottom of the screen. A DVD disc can contain up to 32 subtitle languages.
TITLE NUMBER	These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as Title 1, Title 2, etc.
TRACK NUMBER	These numbers are assigned to the tracks which are recorded on video and audio CDs. They enable specific tracks to be located quickly.
	You can enjoy 5.1 (or 6) channels of high fidelity digital sound from various digital input sources such as DVD, CD etc. DTS provides a realistic, clear surround sound that has not previously been available from conventional surround sound.
	5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with  disc marking). With better sound quality, dynamic range, and directionality than traditional Dolby surround technology, you can enjoy dynamic, realistic sound.
	A 4 channel analog sound reproduced from a program source such as a videotape or LD with the  mark. You can enjoy a more realistic, robust sound unavailable from regular stereo sources.