

DIGITAL HOME THEATER SYSTEM

HT-DS400

HT-DS420

HT-DS403T

HT-DS420S

Instruction Manual



THIS APPLIANCE IS MANUFACTURED BY:

















Safety Warnings

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASS 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.

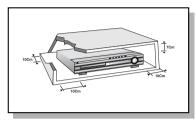
WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

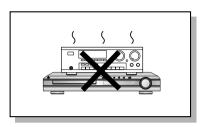
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

(Saudi Arabian Standards Organisation)

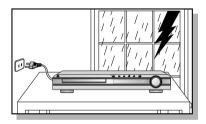
THIS APPLIANCE IS FITTED WITH 220V SASO APPROVED PLUG. THE CUSTOMER IS ENTITLED TO A FREE SASO APPROVED 127 PLUG FROM THE LOCAL DEALER.





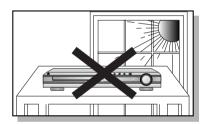


Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4inches). Make sure the ventilation slots are not covered. Do not 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.



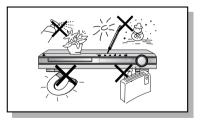
During thunderstorms, disconnect AC main plug from the wall outlet.

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.

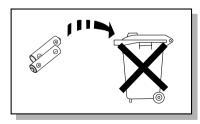


Protect the player from moisture(i.e. vases), and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e. speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.

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.



Multi-Disc Playback & AM/FM Tuner

The HT-DS400/HT-DS420/HT-DS403T/HT-DS420S combines the convenience of multidisc playback capability, including DVD-AUDIO, DVD-VIDEO, VCD, CD, MP3-CD, DivX, CD-R/RW, and DVD-R/RW, with a sophisticated AM/FM tuner, all in a single player.

DVD-Audio compatible

Experience the super high-quality audio performance of DVD-Audio. The on-board 24-bit/192kHz DAC enables this player to deliver exceptional sound quality in terms of dynamic range, low-level resolution and high-frequency detail.

○ Built-in 5.1-Channel Amplifier

The HT-DS400 / HT-DS420/ HT-DS403T/ HT-DS420S comes with a built-in 5.1-channel amplifier, allowing you to enjoy dynamic sound.

ODolby 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.

ODTS (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-DS400 / HT-DS420 / HT-DS403T / HT-DS420S automatically brightens and darkens the brightness of the TV screen after 3 minutes in the stop mode. The HT-DS400 / HT-DS420 / HT-DS403T / HT-DS420S automatically switches itself into the power saving mode after 20 minutes in the screen saver mode.

Power Saving Function

The HT-DS400 / HT-DS420 / HT-DS403T/ HT-DS420S automatically shuts itself off after 20 minutes in the stop mode.

Customized TV Screen Display

The HT-DS400 / HT-DS420 / HT-DS403T/ HT-DS420S allows you to select your favorite image during JPEG, DVD, or VCD playback and set it as your background wallpaper.



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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 |
|-----------|----------------------|------------------|-----------|---------------------------------|
| | | | 12cm | Approx. 240 min. (single-sided) |
| DVD-AUDIO | AUDIO/VIDEO | Audio + Video | 12011 | Approx. 480 min. (double-sided) |
| DVD-VIDEO | | | 8cm | Approx. 80 min. (single-sided) |
| | | | OCITI | Approx. 160 min. (double-sided) |
| VIDEO-CD | DISTAL VIDEO | Audio + Video | 12cm | 74 min. |
| VIDEO-CD | | Addio + Video | 8cm | 20 min. |
| ALIDIO OD | DIO-CD DIGITAL AUDIO | Audio | 12cm | 74 min. |
| AUDIO-CD | | Audio | 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-R 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

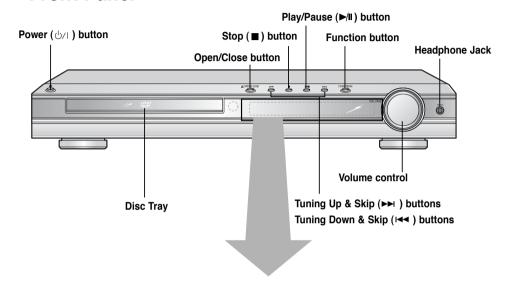
- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".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.

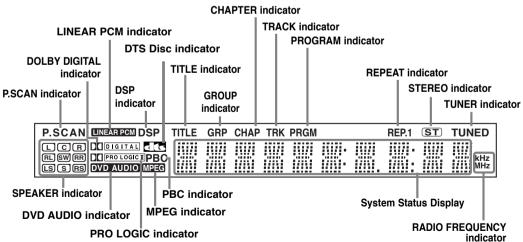
CD-R JPEG Discs

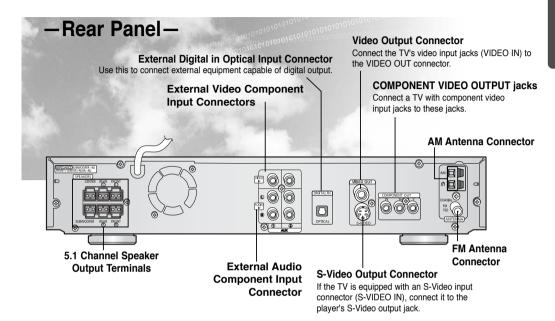
- · Only files with the ".jpeg" and ".JPEG" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters 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/Fuii 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

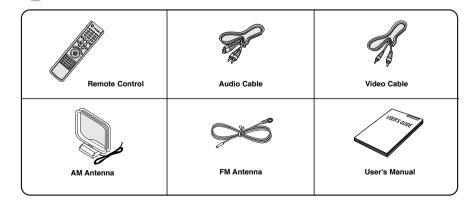
-Front Panel-





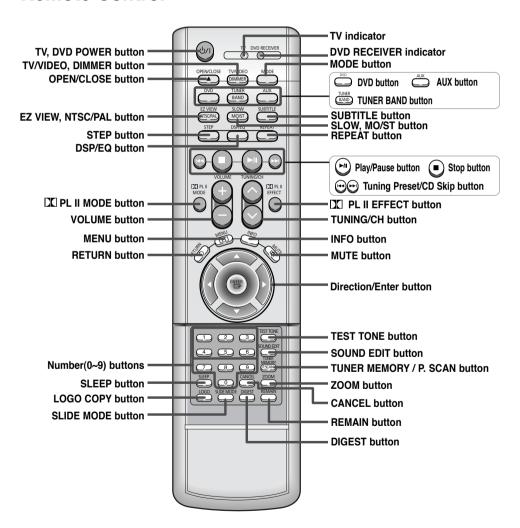


Accessories





-Remote Control-



Insert Remote Batteries

Remove the battery cover on the back of the remote by pressing down and sliding the cover in the direction of the arrow.



- 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.

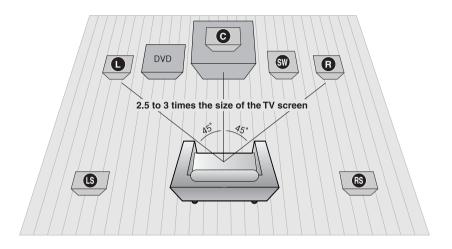


To open the remote control cover, push the top of the cover, then slide downward.



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.

- 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 G

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

Selecting the Listening Position

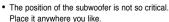
The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV. Example: For 32" TVs 2~2.4m (6~8feet) For 55" TVs 3.5~4m (11~13feet)

Rear Speakers (S)

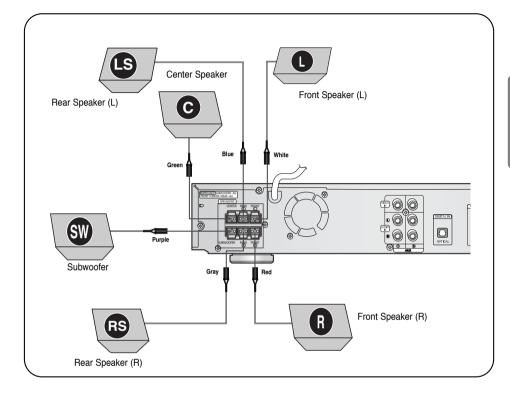


- · Place these speakers behind your listening position.
- · If there isn't enough room, place these speakers to face each other.
- Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.
- * Unlike the front and center speakers, the rear speakers are used to handle mainly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

Subwoofer SW



· Usually, it is placed by a corner near the front speakers.

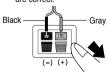


Back of the Speakers

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 correct.



Back of the Main Unit

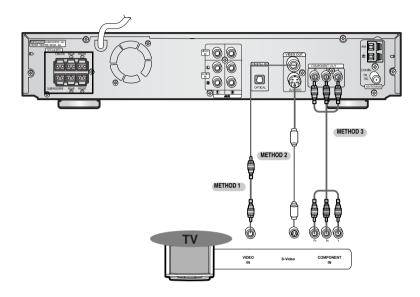
- 3 Connect the connecting jacks to the back of the DVD player.
 - Make sure the colors of the speaker terminals match the colors of the connecting jacks.
 - Make sure the polarities (+ and -) are correctly.



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Connecting the Video Out to TV

Make sure that turn off and disconnect the plug from outlet before moving or installing the product. In connecting to video, select one of following three methods that suits for TV and connect it.



METHOD 1 Composite Video Good Quality

Connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO IN jack on your television.

METHOD 2 S-Video Better Quality

If you television is equipped with an S-Video input, connect an S-Video cable (not supplied) from the S-VIDEO OUT jack on the back panel of the system to the S-VIDEO IN jack on your television.

METHOD 3 Component (Progressive Scan) Video Best Quality

If your television is equipped with Component Video inputs, connect a component video cable (not supplied) from the Pr, Pb and Y jacks on the back panel of the system to the corresponding jacks on your television.



 When the Progressive scan mode is selected, the VIDEO and SCART outputs do not feed any signal. See page 14 to select Progressive Scan.



P.SCAN(Progressive Scan) Function

Unlike regular Interlace Scan, in which two fields of picture information alternate 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

1 Press STOP button.

• When disc is played back, press the STOP button twice so that "STOP", appears on the display.

2 Press and hold P.SCAN button on the remote control for over 5 seconds.

- Pressing and holding the button for over 5 seconds will select "Progressive Scan" and "Interlace Scan" repetitively.
- When you select P.SCAN, "P.SCAN" will appear on the display

What is Progressive (or Non-Interlaced) Scanning?

Interlaced Scan (1 FRAME = 2 FIELDS) Progres



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 interfaced fields, thus a total of 60 fields are dis-

played every 1/60th of a second. 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. An entire image is drawn at one time, as opposed to the interlaced scanning process by which a video image is drawn in a series of passes.

The progressive scanning method is desirable for dealing with moving objects.



- This function works only on TVs equipped with component video inputs (Y, Pr, Pb) that support Progressive Video. (It does not work on TVs with conventional component inputs, i.e., non-progressive scan TVs.)
- Depending on the brand and model of your TV, this function may not work.

Selecting the Video Format

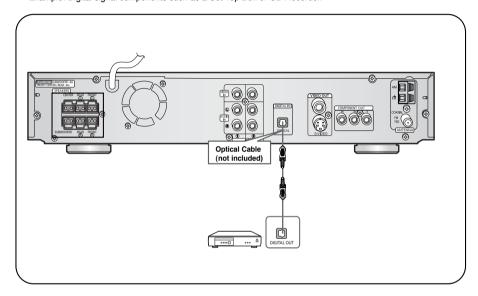
Press and hold NTSC/PAL button on the remote controller for over 5 seconds while the power is turned off.

- "NTSC" or "PAL" will appear in the display.
 At this time, press the NTSC/PAL button shortly to select 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.

Connecting External Components

Connecting an External Digital Component

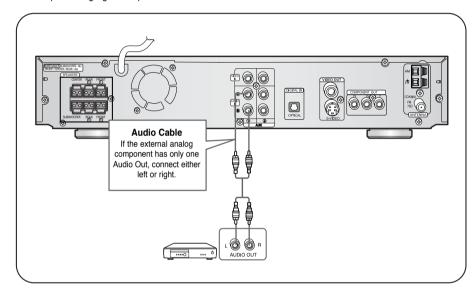
Example: Digital signal components such as a Set-Top Box or CD Recorder.



- 1 Connect the Digital Input (OPTICAL) to the Digital Output on the external digital component.
- **2** Press **AUX** on the remote control to select 'DIGITAL IN'.
 - Each time the button is pressed, the selection changes as follows: DIGITAL IN → AUX 1 → AUX 2.
 - You can also use the FUNCTION button on the main unit.
 The mode switches as follows: DVD/CD → DIGITAL IN → AUX1 → AUX2 → FM → AM.

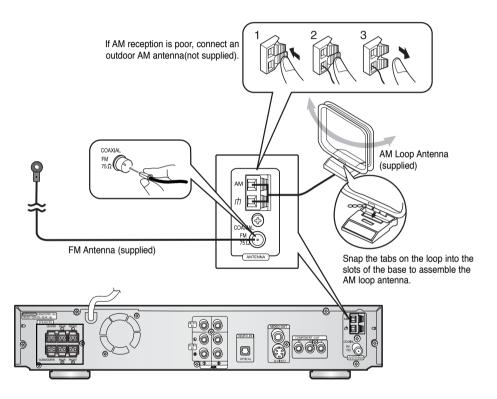
Connecting an External Analog Component

Example: Analog signal components such as a VCR or TV.



- 1 Connect Audio In on the DVD player to Audio Out on the external analog component.
 - Be sure to match connector colors.
- **2** Press **AUX** on the remote control to select AUX 1 or AUX 2.
 - Each time the button is pressed, the selection changes as follows: DIGITAL IN \rightarrow AUX 1 \rightarrow AUX 2.
 - You can also use the **FUNCTION** button on the main unit.
 The mode switches as follows: DVD/CD → DIGITAL IN → AUX1 → AUX2 → FM → AM.

Connecting the FM and AM Antennas



FM antenna connection

- 1. Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal as a temporary measure.
- Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

AM antenna connection

- 1. Connect the AM loop antenna supplied to the AM and $\, \# \,$ terminals.
- 2. If reception is poor, connect an outdoor single vinyl-covered wire to the AM terminal. (Keep the AM loop antenna connected).
- · If reception is poor, connect an outdoor antenna.

Before attaching a 75Ω coaxial cable (with a standard type connector), disconnect the supplied FM antenna.

Cooling Fan

The cooling fan dissipates the heat generated inside the unit so that the unit can be operated normally. The cooling fan is activated automatically to supply cool air to the unit.

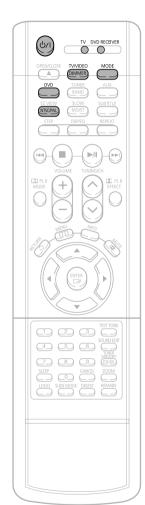


Please observe the following cautions for your safety.

- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit could rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)

Before Using Your DVD Player

Your DVD player is capable of playing DVD, VCD, CD, MP3 and JPEG discs. Depending on the disc you are using, these instructions may vary slightly. Read the instructions carefully before using.



Plug the power cord into the AC power supply.

Press **TV/VIDEO** button to select VIDEO mode.

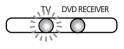


Selecting the Video Format

While the player is turned off, hold the NTSC/PAL down for longer than 5 seconds.

- . By default, the video format is set to "PAL".
- Each time the button is pressed for longer than 5 seconds, 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.

Press the **MODE** button so that the TV indicator on the remote control flashes.



Press the **MODE** button so that the DVD RECEIVER indicator on the remote control flashes.



Press the **POWER** button to turn on the TV.



6 Press **DVD** button to select DVD/CD mode.

To Operate the TV and DVD Player with a Single Remote Control

Press MODE button.

- Each time the button is pressed, the TV indicator (red) and the DVD Receiver indicator (green) will flash alternately.
- You can operate the TV while the TV indicator is flashing and the DVD player while the DVD indicator is flashing.
- Buttons Enabled for TV Operation: POWER, CHANNEL, VOLUME, TV/VIDEO and Numeric (0-9) buttons.
- By default, the remote control is set to work with Samsung TVs.
 See page 69 for more information on the operation of the remote control.



Press **OPEN/CLOSE** button to open the disc trav.

Load a discs.

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

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







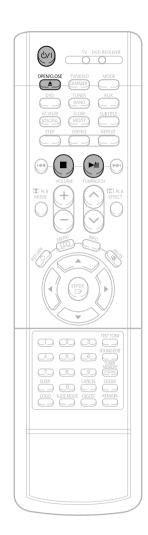
· Playback starts automatically.

Note

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

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 (►/II) 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 (►/II) button is pressed, playback starts from the beginning.



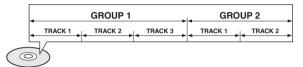
To temporarily pause playback, press PLAY/PAUSE during playback.

• To resume playback, press PLAY/PAUSE (►/II) button again.

Disc terminology

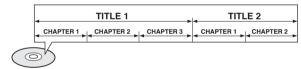
Groups and tracks (DVD-AUDIO)

• DVD-audios are divided into several large sections called "groups" and smaller sections called "tracks". Numbers are allotted to these sections. These numbers are called "group numbers" and "track numbers".



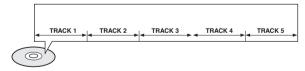
Titles and chapters (DVD-VIDEO)

• DVD-videos are divided into several large sections called "titles" and smaller sections called "chapters". Numbers are allotted to these sections. These numbers are called "title numbers" and "chapter numbers".



Tracks (Video and music CDs)

 Video and music CDs are divided into sections called "tracks". Numbers are allotted to these sections. These numbers are called "track numbers".



- Note In this manual, the instructions marked with "DVD (DVD)" are applicable to DVD-VIDEO, DVD-AUDIO, and DVD-R/RW discs. Where a particular DVD type is mentioned, it is indicated separately.
 - Depending on the content of the disc, the initial screen may appear different.

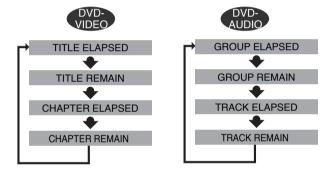
Checking the Remaining Time

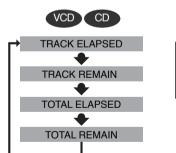




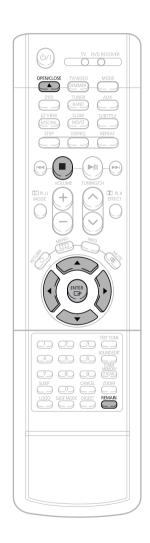
 For checking the total and remaining time of a title or chapter being played.

Each time the REMAIN button is pressed









Press the
OPEN/CLOSE button
to open the disc tray,
and then load the
MP3 disc.

- The MP3 menu screen will appear and playback will start.
- Depending on the MP3 disc, the appearance of the menu may be different



In Stop mode, use

▼ to select
the album, and then
press the ENTER
button.

To change the album, use ◀ ▶ ▲ ▼ to select another album in Stop mode, and then press the ENTER button.

• To select another album and track, repeat Steps 2 and 3 above.

Press the STOP button to stop playback.

Note

- Depending on the recording mode, some MP3-CDs may not play.
- Table of contents of a MP3-CD varies depending on the MP3 track format recorded on the disc.

JPEG File Playback

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

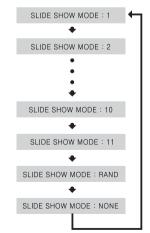
Place the JPEG disc on the disc tray.

Press the OPEN/CLOSE button.

Press SLIDE MODE button.

· Playback starts automatically.

• Each time the button is pressed, the image makes the transition as follows:



From top to bottom

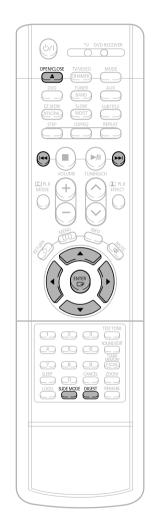
From bottom to top

Rectangular shape in the center

Vertical curtain shape

Each time a new image is displayed, slide modes $(1\sim11)$ will be applied randomly and automatically.

Cancels the slide mode





You can view 9 JPEG images on the TV screen.

Press **DIGEST** button during playback.

 JPEG files will be shown in 9 windows.



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

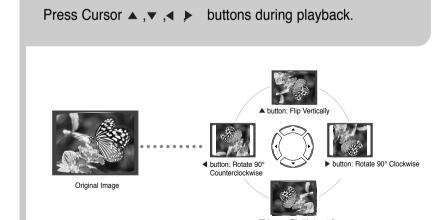
• The selected image is played for 5 seconds before moving to the next image.

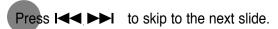




To view the previous or next image with 9 windows, pressi◄►►I

Rotate/Flip Function





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

DivX Playback

Skip Forward/Back

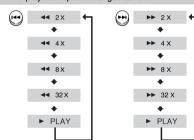
During playback, press the I◀◀ ▶▶I button.

- Go to the next file whenever you press ►►I button, if there are over 2 files in the disk.
- Go to the previous file whenever you press | dd button, if there are over 2 files in the disk.

Fast playback

Press and hold I◀◀ ▶▶I button.

 Each time the button is held down during playback, the playback speed changes as follows:



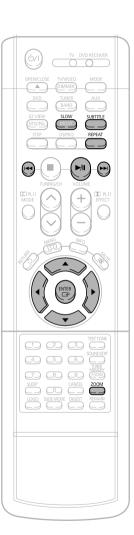
Zoom Function

Press **ZOOM** button.

 Each time you press the button, your selection will toggle between "ZOOM X2" and "ZOOM OFF".



 DivX files can be played in Zoom X2 mode only.



5 Minute Skip function

During playback, press the ◀,▶ button.

- Go to the screen about 5 minutes after whenever you press ▶ button.

Subtitle Display

Press the **SUBTITLE** button.

- Each time you press the button, your selection will toggle between "SUBTITLE ON" (1/1, 1/2 ...) and "SUBTITLE OFF".
- If the disc has only one subtitle file, it will be played automatically.

If the disc has more than one subtitle file

If the disc has more than one subtitle file, the default subtitle may not match the movie and you will have select your subtitle language as follows:

In Stop mode, press the ▲, ▼, ◀, ▶ button, select the desired subtitle (🔙) from the TV screen, and then press the **ENTER** button.

2 When you select the desired DivX file from the TV screen, the movie will be played normally.

DivX Feature Table

DivX Supported

Avi files are used to contain the audio and video data; these must be stored on CD in the ISO 9660 format.

| | | SPEC |
|---------------------|-------------|--------------------------|
| | DivX3.11 | Up to the latest VERSION |
| VIDEO Compatibility | WMV | WMV V1/V2/V3/V7 |
| | Screen Size | 720~576 |
| | MP3 | CBR: 80kbps~320kbps |
| AUDIO Compatibility | AC3 | CBR: 128kbps~384kbps |
| | WMA | CBR: 56kbps~160kbps |

MPEGs containing DivX can be divided into Video and Audio.

- Video compatibility: All versions of DivX later than 3.11 (including the latest 5.1) are supported. In addition, XviD is supported. For WMV, V1, V2, V3, and V7 formats are possible.
- Audio compatibility: MP3s encoded at bitrates from 80kbps to 320kbps, AC3s from 128kbps to 384kbps, and WMAs from 56kbps to 160kbps are supported.
- In addition, for subtitles, this unit will support Text format (SMI).

Note

- When playing the DivX disk, you can play the file with extension of AVI only.
- Among the available DivX audio formats, DTS Audio is not supported.
- WMV V8 is not supported for WMV files.
- When burning a subtitle file to a CD-ROM with your PC, be sure to burn it as an SMI file.
- DivX Disc does not playing when its sampling frequency is lower than 32kHz.
- Some of the discs recorded in DivX or XviD depending on the way of recording could be played back not correctly or couldn't be played back at all.



Displaying Disc Information

You can view disc playback information on the TV screen.



Press **INFO** button

Each time the button is pressed, the display changes as

DVD





Display disappears

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.



• filly 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 Group?

A movie contained in a DVD-AUDIO disc

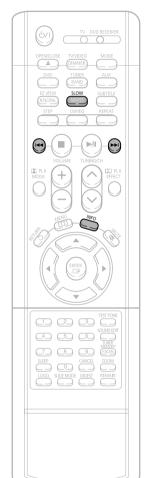
A movie contained in a DVD-VIDEO disc.

What is a Chapter?

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

What is a Track (File)?

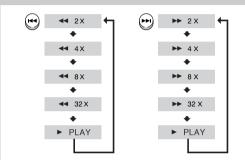
A section of video or a music file recorded on a DVD-AUDIO. CD. or MP3-CD.





Press and hold |

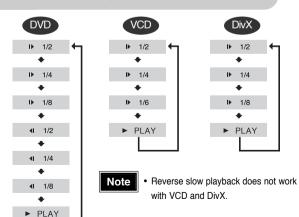
• Each time the button is held down during playback, the playback speed changes as follows:



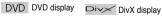
Slow Playback

Press **SLOW** button.

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



Screen Display









mp. Something like you mp. Back for good mp. Love of my life mp. More than words









VCD VCD display













GROUP display

DVD DVD-AUDIO display



Skipping Scenes/Songs



Repeat Playback

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

DVD VCD MP3

Briefly press I◀◀ ▶►I .

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

















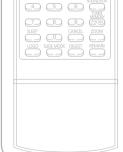


 When watching a VCD with a track longer than 15 minutes, each time is pressed, playback will skip back or forward 5 minutes.

MP3







Playing Frame by Frame DVD VCD

Press STEP button.

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

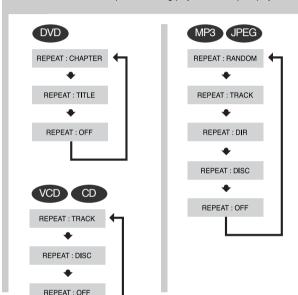


- During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.
- No sound is heard during slow playback and step motion playback.

Press **REPEAT** button.

DVD VCD CD MP3 JPEG

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



Repeat Playback Options

Repeatedly plays the selected chapter.

Repeatedly plays the selected title.

RANDOM

Plays tracks in random order. (A track that has already been played may be played again.)

Repeatedly plays the selected track.

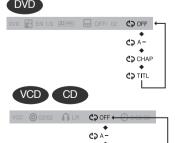
Repeatedly plays all tracks in the selected

Repeatedly plays the entire disc.

Cancels Repeat Playback.



- **2** Press Cursor ▶ button to move to REPEAT PLAYBACK (C) display.
- **3** Press Cursor ▼ button to select the desired Repeat Playback mode.
- 4 Press ENTER button.
- * For MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.



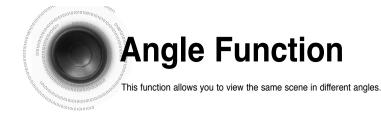
€⊋TRACK

€⊋DISC

Note

 Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on. To use Repeat Playback on a VCD with PBC, you should set the PBC to OFF in the disc menu. (See page 39.)

A-B Repeat Playback



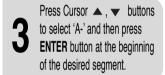


Press **INFO** button twice.

• For a VCD or CD, press INFO button once.

DVD P EN 1/3 PROMP - OFF/ 02 CO OFF

Press Cursor ▶ button to move to REPEAT PLAYBACK (C) display.



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



Press **ENTER** button at the end of the desired segment.

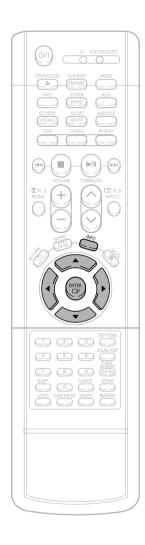
• The specified segment will be played repeatedly.



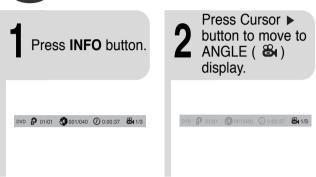
To return to normal playback, press Cursor ▲, ▼ buttons to select CO OFF.



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







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

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











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





Press **ZOOM** button.

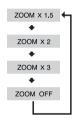
want to enlarge.

Press **ENTER** button.





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







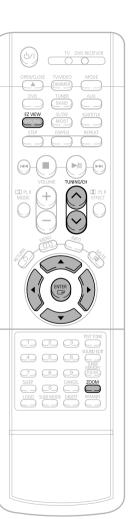
Press **EZ VIEW** button.

- Each time the button is pressed, the zoom function will switch between On
- · 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.





Some DVD-Audio discs have an extra 'bonus' group that requires a 4-digit key number to access. See the disc packaging for details and the-key number.

When you play a DVD-Audio disc that has a bonus group, the key number input screen appears automatically.



If you eject the disc, switch the power off, or unplug the player, you will need to re-enter

▶ Navigating Pages



During playback, press the 🛇 the remote control.



button on

- You can select the desired image from a DVD-Audio disc containing still images.
- With some discs, you may not be able to select images depending on how the disc was manufactured.

Selecting Audio/Subtitle Language

Moving Directly to a Scene/Song





Press **INFO** button twice. DVD P EN 1/3 PROMU - OFF/ 02 CO OFF

Press Cursor ▲ . ▼ buttons or numeric buttons to select the desired audio language.

· Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.





Press **INFO** button twice.

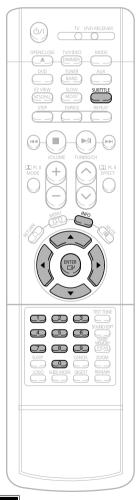


Press Cursor ▶ button to move to SUBTITLE (🖃) display.



button or numeric buttons to select the desired subtitle.





Note

- You can use the SUBTITLE button on the remote control to select a subtitle language
- Depending on the disc, the Subtitle and Audio Language functions may



Press **INFO** button.



Moving to a Title/Track

Press Cursor ▲ . ▼ buttons or numeric buttons to select the desired title/track and then press ENTER button.



Moving to a Chapter

Press Cursor **◄.**▶ buttons to move to Chapter (🌺) display.



Moving to a Chapter

Press Cursor . . buttons or numeric buttons to select the desired chapter and then press **ENTER** button.



Moving to a Specific Time

Press Cursor ◀, ▶ buttons to move to time display.



Moving to a Specific Time

Press the numeric buttons to select the desired time and then press ENTER button.





Press the **numeric** buttons.

- The selected file will be played.
- · An MP3 or JPEG disc cannot be moved from the disc information screen.
- · When playing an MP3 or JPEG disc, you cannot use . To move a folder. To move a folder, press ■ (Stop) and then press ▲,▼.



Note

- You can press I◀◀ ▶►I on the remote control to move directly to the desired title, chapter, or track,
- . Depending on the disc, you may not be able to move to the selected title or time.

Using Disc Menu

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

Press Cursor A.

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.

Using the Title Menu For DVDs containing multiple titles, you can view the title of each movie.

DVD

In Stop mode, press **MENU** button.

 When playing a VCD (version 2.), this toggles between PBC ON and OFF

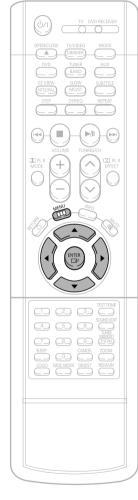


Press Cursor ▲,▼
◀, ▶ buttons to select the desired item.



4 Press ENTER button.





DVD

In Stop mode, press **MENU** button.



Press Cursor , v button to move to 'Title Menu'.

Depending on the disc, this function may either not work at all or may work differently.



button.

Press **ENTER**

• The title menu appears.



Press MENU button to exit the setup screen.

Note

PBC (Playback Control) Function

When playing a VCD (version 2.0), you can select and view various scenes according to the menu screen.

PBC ON: This VCD disc is version 2.0. The disc is played back according to the menu screen. Some functions may be disabled. When some functions are disabled, select "PBC OFF" to enable them.

PBC OFF: This VCD disc is version 1.1. The disc is played back in the same way as with a music CD.



In Stop mode, press **MENU** button.

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

Press ENTER button.

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

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.









• To select other language, select OTHER and enter the language code of your country. (See 48 page for language code of countries) AUDIO, SUB TITLE and DISC MENU language can be selected.



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)

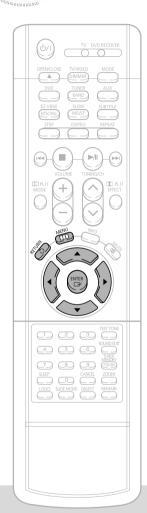
* If the language you selected is not recorded on the disc, menu language will not change even if you set it to your desired language.

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

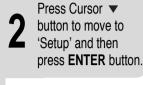


Setting TV Screen type

Depending on your TV type (Wide Screen TV or conventional 4:3 TV), you can select the TV's aspect ratio.



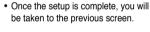
In Stop mode, press MENU button.





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







Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TVs is 4:3, while that of wide screen 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 wide screen TV.

WIDE

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

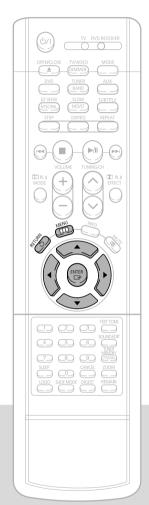
Press **RETURN** button to return to the previous level.

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.



In Stop mode, press **MENU** button.

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



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



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
- The higher the level, the closer the content is to violent or adult material.



- 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.

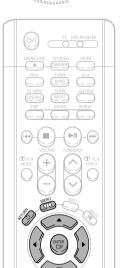
Setting the Password

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



Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See page 41).



Press **MENU** button.

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

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







Press ENTER button.

Enter the password and then press ENTER button.

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





lote

The password is set to "7890" by default.

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

| Code | Language | Code | Language | Code | Language | Code | Language |
|------|-----------------|------|--------------|------|------------------|------|------------|
| 1027 | Afar | 1181 | Frisian | 1334 | Latvian, Lettish | 1506 | Slovenian |
| 1028 | Abkhazian | 1183 | Irish | 1345 | Malagasy | 1507 | Samoan |
| 1032 | Afrikaans | 1186 | Scots Gaelic | 1347 | Maori | 1508 | Shona |
| 1039 | Amharic | 1194 | Galician | 1349 | Macedonian | 1509 | Somali |
| 1044 | Arabic | 1196 | Guarani | 1350 | Malayalam | 1511 | Albanian |
| 1045 | Assamese | 1203 | Gujarati | 1352 | Mongolian | 1512 | Serbian |
| 1051 | Aymara | 1209 | Hausa | 1353 | Moldavian | 1513 | Siswati |
| 1052 | Azerbaijani | 1217 | Hindi | 1356 | Marathi | 1514 | Sesotho |
| 1053 | Bashkir | 1226 | Croatian | 1357 | Malay | 1515 | Sundanese |
| 1057 | Byelorussian | 1229 | Hungarian | 1358 | Maltese | 1516 | Swedish |
| 1059 | Bulgarian | 1233 | Armenian | 1363 | Burmese | 1517 | Swahili |
| 1060 | Bihari | 1235 | Interlingua | 1365 | Nauru | 1521 | Tamil |
| 1069 | Bislama | 1239 | Interlingue | 1369 | Nepali | 1525 | Tegulu |
| 1066 | Bengali; Bangla | 1245 | Inupiak | 1376 | Dutch | 1527 | Tajik |
| 1067 | Tibetan | 1248 | Indonesian | 1379 | Norwegian | 1528 | Thai |
| 1070 | Breton | 1253 | Icelandic | 1393 | Occitan | 1529 | Tigrinya |
| 1079 | Catalan | 1254 | Italian | 1403 | (Afan) Oromo | 1531 | Turkmen |
| 1093 | Corsican | 1257 | Hebrew | 1408 | Oriya | 1532 | Tagalog |
| 1097 | Czech | 1261 | Japanese | 1417 | Punjabi | 1534 | Setswana |
| 1103 | Welsh | 1269 | Yiddish | 1428 | Polish | 1535 | Tonga |
| 1105 | Danish | 1283 | Javanese | 1435 | Pashto, Pushto | 1538 | Turkish |
| 1109 | German | 1287 | Georgian | 1436 | Portuguese | 1539 | Tsonga |
| 1130 | Bhutani | 1297 | Kazakh | 1463 | Quechua | 1540 | Tatar |
| 1142 | Greek | 1298 | Greenlandic | 1481 | Rhaeto-Romance | 1543 | Twi |
| 1144 | English | 1299 | Cambodian | 1482 | Kirundi | 1557 | Ukrainian |
| 1145 | Esperanto | 1300 | Kannada | 1483 | Romanian | 1564 | Urdu |
| 1149 | Spanish | 1301 | Korean | 1489 | Russian | 1572 | Uzbek |
| 1150 | Estonian | 1305 | Kashmiri | 1491 | Kinyarwanda | 1581 | Vietnamese |
| 1151 | Basque | 1307 | Kurdish | 1495 | Sanskrit | 1587 | Volapuk |
| 1157 | Persian | 1311 | Kirghiz | 1498 | Sindhi | 1613 | Wolof |
| 1165 | Finnish | 1313 | Latin | 1501 | Sangro | 1632 | Xhosa |
| 1166 | Fiji | 1326 | Lingala | 1502 | Serbo-Croatian | 1665 | Yoruba |
| 1171 | Faeroese | 1327 | Laothian | 1503 | Singhalese | 1684 | Chinese |
| 1174 | French | 1332 | Lithuanian | 1505 | Slovak | 1697 | Zulu |



Setting the Wallpaper wo







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

Setting the Wallpaper

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





• "COPY LOGO DATA" will be displayed on the TV screen.



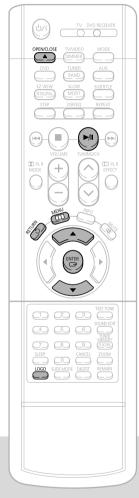


The power will turn off and then back on and the disc tray will open automatically.

• The selected wallpaper will be displayed.

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

• You can repeat Steps 1 and 2 to set up to 3 wallpapers.



To Change the Wallpaper

In Stop mode, press **MENU** button.



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



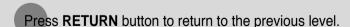
Press Cursor ▼ button to move to 'LOGO' and then press **ENTER** button.



Press ▼ to select the desired 'USER'. and then press ENTER.



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





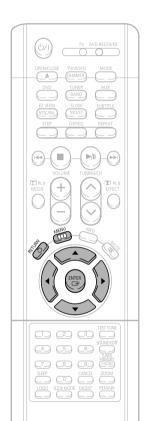
Select this to set the Samsung Logo image as your wallpaper.



Select this to set the desired image as your wallpaper.

DVD Playback Mode

Some DVD-Audio discs contain DVD-Video as well as DVD-Audio. To play back the DVD-Video portion of the DVD-Audio disc, set the unit to DVD-Video mode.



Press the **MENU** button while the disc tray is open.



Press Cursor V button to move to 'DVD TYPE' and then press **ENTER** button.



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



Press Cursor . . button to move to 'DVD VIDEO' and then press ENTER button.

• Set steps 1 ~ 4 again if you want to switch to DVD AUDIO Play mode.



When Selecting DVD Play Mode:

. DVD VIDEO : set to play the DVD video

contents contained in DVD

audio disc.

. DVD AUDIO: set to play the default DVD



Video may look slower than the audio if it is connected with digital TV. In this case, adjust the delay time of audio to optimal status to fit the video.

Press the **MENU** button.

· Setup menu appears.



Press Cursor buttons to move to 'Audio' and then press ENTER button.

· 'Audio' menu appears.



Press Cursor ▲, ▼ buttons to move to 'AV-SYNC' and then press ENTER button.

· AV-SYNC screen appears.

Press Cursor buttons to select the Delay Time of AV-SYNC and then press the **ENTER** button.

• You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.



Note

• DVD Play mode is set to DVD Audio as factory default setting. Press RETURN button to return to the previous level.

Press MENU button to exit the setup screen.

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



Setting the Speaker Mode

Signal outputs and frequency responses from the speakers will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.

In Stop mode, press **MENU** button.



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



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



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

. For C. LS, and BS, 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.



• Depending on PRO LOGIC and STEREO, the speaker mode may vary.



Setting the Test Tone

Press the Test Tone to check the speaker connections and to adjust the speaker levels.

In Stop mode, press **MENU** button.



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



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

 The test tone will be sent to L → C → $R \rightarrow RS \rightarrow LS \rightarrow SW$ in that order. If the ENTER 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.

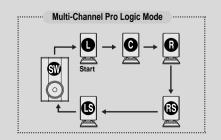
When manually testing using the **TEST TONE** button

• Test tone will be produced as follows: When playing a DVD or CD, this will work only in Stop mode.

Press **TEST TONE** button.

 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.



L: Front Speaker (L) C: Center Speaker

R: Front Speaker (R) LS: Rear Speaker (L)

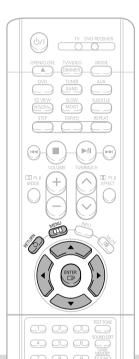
SW: Subwoofer

RS: Rear Speaker (R)



Setting the Delay Time

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the center and rear speakers.



In Stop mode, press **MENU** button.

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



Press Cursor ▼ button to move to 'DELAY TIME' and then press ENTER button.



Press Cursor ▲, ▼,

◀,▶ buttons to move
to the desired
speaker and then
press ENTER button.



Press Cursor ◀, ► 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.

Note

- With TPL (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time can be set between 00 and 15mSEC.

• Setting CENTER SPEAKER

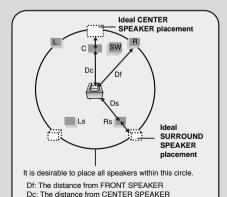
If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms. Otherwise, change the setting according to the table.

| Distance between Df and Dc | Delay Time |
|----------------------------|------------|
| 0.00 m | 0 ms |
| 0.34 m | 1 ms |
| 0.68 m | 2 ms |
| 1.02 m | 3 ms |
| 1.36 m | 4 ms |
| 1.70 m | 5 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 Df and Ds | Delay Time |
|----------------------------|------------|
| 0.00 m | 0 ms |
| 1.02 m | 3 ms |
| 2.04 m | 6 ms |
| 3.06 m | 9 ms |
| 4.08 m | 12 ms |
| 5.10 m | 15 ms |

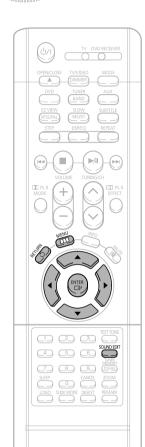


Ds: The distance from SURROUND SPEAKER

55

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

In Stop mode, press **MENU** button.

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



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





Method 2 When manually adjusting with the SOUND EDIT button

Adjusting Front Speaker Balance

Press **SOUND EDIT** button and then press Cursor

◀, ▶.



Adjusting Rear Speaker Balance

Press SOUND
EDIT button and then press Cursor



Adjusting Center Speaker Level

Press SOUND
EDIT button and then press Cursor



Adjusting Rear Speaker Level

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



Adjusting Subwoofer Speaker Level

Press SOUND EDIT button and then press Cursor

SW +0183

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 quieter 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.



MENU button



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



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



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

• The Cursor **\(\rightarrow\)** button is pressed, the greater the effect, and the Cursor ▼ button is pressed, the smaller the effect.



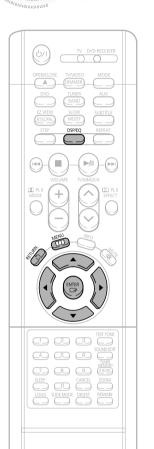
Press **RETURN** button to return to the previous level.

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



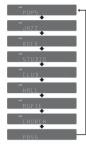
Sound Field (DSP)/EQ Function

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 This feature works with CDs, MP3-CDs and 2 channel DVD-Audio and Dolby Digital discs.
 - When playing a DVD disc encoded with two or more channels, multi-channel mode will be selected automatically and DSP/EQ function does not work

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.

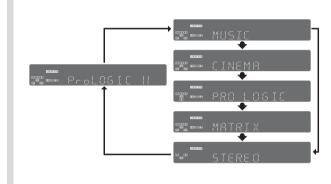
Dolby Pro Logic II Mode

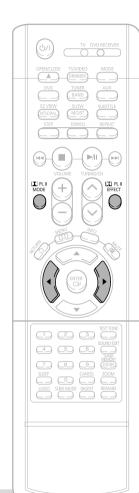
You can select the desired Dolby Pro Logic II audio mode.



Press I PL II MODE button.

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





Press PL II MODE button to select 'MUSIC' mode.



Press ■ PL II EFFECT button and then press Cursor ◀,▶

buttons to select the mode.

You can select between 0 and 7.

1C (R) DO (MOTOME) --- ...

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

• You can select either 0 or 1.

You can select between 0 and 6.



Press PL II EFFECT button

and then press Cursor ◀,▶

buttons to select the mode.

PRMORRIMA

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.



• 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.

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.

- 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.

Remote Control Unit

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

Tune in to the desired station.

When I◄◄ ▶►I is pressed, a preset broadcast station is

Press and hold 🛇 🗸 to automatically search for active broadcasting stations.

Briefly press to increase or decrease the frequency incrementally.

Main Unit

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

Select a broadcast station.

Press the STOP (■) button to select

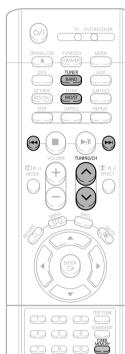
PRESET and then press I◀◀ ▶▶I button to select the preset station.

Automatic Tuning 2 Press the STOP (■) button to select "MANUAL" and

then press and hold I◀◀ ▶▶I button to automatically search the band.

Press STOP (■) to select Manual Tuning MANUAL and then briefly

press | < > > I to tune in to a lower or higher frequency.





Presetting Stations

You can store up to:

- ♦ 15 FM stations
- ♦ 15 AM stations

• FM Frequency Modulation · AM ······ Medium Wave

Example: Presetting FM 89.1 in the memory

Press the TUNER(BAND) button and select the FM band

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

Press 🛇 vo select "89.10".

• Refer to Step 2 on page 63 to automatically or manually tune in to a station.

Press the **TUNER MEMORY** button

. "PRGM" flashes in the display. Tune in to a station.



- Press I◄◀ ▶▶I to select preset number.
- · You can select between 1 and 15



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

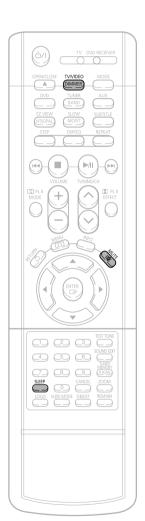
To preset another station, repeat steps 2 to 5.

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.





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: $10 \rightarrow 20 \rightarrow 30 \rightarrow 60 \rightarrow$ $90 \rightarrow 120 \rightarrow 150 \rightarrow \text{OFF}.$



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

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

Adjusting Display Brightness Mute Function

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

Press **DIMMER** button.

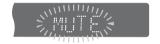
• Each time the button is press, the brightness changes as follows: SLIGHTLY DARK → DARK → BRIGHT.



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.



Using Headphones

Use headphones (not supplied) for private listening pleasure.

Connect the headphones to the PHONES jack for private listening.

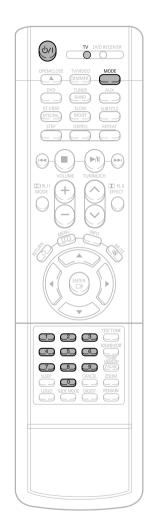
Caution

• To prevent hearing damage, do not increase the volume excessively when using headphones.



MISCELLANEOUS

Operating a TV with the Remote Control



When operating a TV with the remote control

- Press the **MODE** button to make the TV indicator on the remote control flash.
- Press POWER button to turn on the TV.
- 3 Point the remote control toward the TV.
- While holding down **POWER**, enter the code corresponding to your brand of TV.
 - If the code matches the TV's code, the TV will be turned off.
 - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

Example: For a Samsung TV

While holding down **POWER**, use the number buttons to enter 00, 01, 02, 03, 04, and 05.

- Pont the remote control toward the TV and press POWER. If the TV turns off or on, the setting is complete.
 - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

Note

- The remote control may not work on some brands of TVs. Also some operations may not be possible depending on your brand of TV.
- If you do not set the remote control with the code for your brand of TV, the remote control will work on a Samsung TV by default.

TV Brand Code List

| No. | Brand | Code | No. | Brand | Code |
|-----|------------|---|-----|--------------------|------------|
| 1 | SAMSUNG | 00(Initial Value), 01, 02, 03, 04, 05, 73 | 30 | BRANDT | 41 |
| 2 | ANAM | 06~11,59 | 31 | FERGUSON | 41 |
| 3 | DAEWOO | 12~18, 20, 21 | 32 | PIONEER | 41, 48, 74 |
| 4 | LG | 05, 20, 21, 22, 53 | 33 | TELEAVA | 41 |
| 5 | HITACHI | 23, 40, 41, 49 | 34 | FINLUX | 05, 42, 47 |
| 6 | JVC | 24,55 | 35 | FISHER | 31 |
| 7 | SHARP | 27, 33, 34, 35, 54 | 36 | AKAI | 31 |
| 8 | SONY | 27,36 | 37 | УОКО | 05 |
| 9 | TOSHIBA | 27, 37, 42, 43, 44, 46 | 38 | PHONOLA | 05, 45, 47 |
| 10 | SANYO | 27, 30, 31, 32 | 39 | RADIOLA | 05, 45 |
| 11 | MITSUBISHI | 05, 27, 28 | 40 | SCHNEIDER | 05 |
| 12 | MATSUSHITA | 09,26 | 41 | NEWSAN | 58 |
| 13 | TELEFUNKEN | 41, 49, 51, 57 | 42 | CONTINENTAL EDISON | 49 |
| 14 | RCA | 29,61 | 43 | SALORA | 48 |
| 15 | PANASONIC | 07, 09, 26, 48, 49, 50 | 44 | SELECO | 48 |
| 16 | SABA | 40, 41, 47, 48, 49 | 45 | NOKIA | 48 |
| 17 | PHILIPS | 05, 45, 47, 64, 65, 66, 67, 68, 69 | 46 | REX | 48 |
| 18 | GRUNDIG | 39, 42, 46, 70, 71, 72 | 47 | MIVAR | 46 |
| 19 | ZENITH | 38 | 48 | IMPERIAL | 46 |
| 20 | MIVAL | 52 | 49 | CGE | 46 |
| 21 | NOBLEX | 56 | 50 | BANG & OLUFSEN | 47 |
| 22 | EMERSON | 19 | 51 | BRIONVEGA | 47 |
| 23 | MAGNAVOX | 25 | 52 | FORMENTI | 47 |
| 24 | LOEWE | 05,60 | 53 | METZ | 47 |
| 25 | THOMSON | 40, 41, 49, 62, 63 | 54 | WEGA | 47 |
| 26 | NORDMENDE | 40, 41, 49 | 55 | RADIOMARELLI | 47 |
| 27 | LOEWE OPTA | 36, 47, 05 | 56 | SINGER | 47 |
| 28 | BLAUPUNKT | 39 | 57 | SINUDYNE | 47 |
| 29 | SIEMENS | 39 | | | |

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. | Is the power cord plugged securely into the outlet? Turn off the power and then turn it back on. |
| Playback does not start. | 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 | Are you using a deformed disc or a disc with scratches on the surface? Wipe the disc clean. |
| Sound is not produced. | 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. | When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing □□PL 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. | 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. | 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 | | | | | |
|--|---|--|--|--|--|--|
| Disc is rotating but no picture is produced. Picture quality is poor and picture is shaking. | 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. | 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. | 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. | Are you using a disc that does not contain menus? | | | | | |
| Aspect ratio cannot be changed. | 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. | Is the antenna connected properly? If the antenna's input signal is weak, install an external FM antenna in an area with good reception. | | | | | |
| The main unit is not working. (Example: The power goes out or strange noise is heard.) | Turn off the power and hold the button on the main unit for longer than 5 seconds. | | | | | |
| The DVD player is not working normally. | Using the RESET function will erase all stored settings. Do not use this unless necessary. | | | | | |
| The password for rating level has been forgotten. | While "NO DISC" message appears on the display of main unit, hold the main units button for longer than 5 seconds. "INITIALIZE" appears on the display and all settings will return to the default values. Press the POWER button. Using the RESET function will erase all stored settings. Do not use this unless necessary. | | | | | |



Cautions on Handling and Storing Discs

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





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 or scratched discs.

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.



| G | Power Consumption | 90W | | | | | | |
|-----------------|-----------------------------|---|-------------------------|--|--|--|--|--|
| G E N | Weight | 4Kg | | | | | | |
| E R | Dimensions (W x H x D) | 360 x 65 x 394 mm | | | | | | |
| A A | Operating Temperature Range | +5°C~+35°C | | | | | | |
| L | Operating Humidity Range | 10%~75% | | | | | | |
| _ I | Usable Sensitivity | 10dB | | | | | | |
| F U М N E | S/N Ratio | 55dB | | | | | | |
| "" E | Distortion | 0.8% | | | | | | |
| , II | Usable Sensitivity | 60dB | | | | | | |
| A M ER | S/N Ratio | 35dB | | | | | | |
| <u>R</u> | Distortion | 2% | | | | | | |
| 0 | Composite Video | 1.0Vp-p(75Ω load) | | | | | | |
| OUTPUT | | Luminance signal : 1.0Vp-p(75Ω load) | | | | | | |
| V-DEO | S-Video | Color Signal : 0.286Vp-p(75Ω l | oad) | | | | | |
| Ε̈́υ | | Y:1.0Vp-p(75Ω load) | | | | | | |
| - 1 | Component Video | Pr:0.70Vp-p(75Ω load) | | | | | | |
| | | Pb:0.70Vp-p(75Ω load) | | | | | | |
| Α | Front speaker output | 60W x 2(4Ω) | | | | | | |
| М | Center speaker output | 60W(4Ω) | | | | | | |
| Р | Rear speaker output | 60W x 2(4Ω) | | | | | | |
| Ī | Subwoofer speaker output | 100W(4Ω) | | | | | | |
| F | Frequency range | 20Hz~20kHz | | | | | | |
| | S/N Ratio | 70dB | | | | | | |
| E R | Channel separation | 60dB | | | | | | |
| - 11 | Input sensitivity | (AUX)400mV | | | | | | |
| | Speaker system | 5.1ch speaker sy Front/Center/Rear speaker | | | | | | |
| S | Impedance | 4Ω x 5 | Subwoofer speaker 4Ω | | | | | |
| P | Frequency range | 150Hz~20kHz | 30Hz~150Hz | | | | | |
| E A | Output sound pressure level | 85dB/W/M | 86dB/W/M | | | | | |
| K | Rated input | 60W | 100W | | | | | |
| Ē | Maximum input | 120W | 200W | | | | | |
| R | Dimensions (W x H x D) | 85 x 131 x 93.2 mm | 180 x 409 x 380 mm | | | | | |
| | Weights | 100 X 400 X 000 Hilli | | | | | | |
| | Woighto | 0.7 Kg 7.0 Kg | | | | | | |

HT-DS420 / DS403T

| | | 5.1ch speaker system | | | | | | | |
|-------------|-----------------------------|---------------------------|---------------|---------------|------------------|-------------------|--------|-------------------|-------------------|
| | Speaker system | Front/Center/Rear speaker | | | | | | Subwoofer speaker | |
| | Impedance | 4Ωx | 4 Ω x 5 | | | | | | 4 Ω |
| | Frequency range | 150 H | 150 Hz~20 KHz | | | | | 30Hz~150 Hz | |
| S P | Output sound pressure level | 85 dE | 85 dB/W/M | | | | | 86 dB/W/M | |
| E A K | Rated input | DS420 | Front | , | Center/Rear | | DS403T | 100 W | 100W |
| | Maximum input | 200 | | - | 120 W | + | | 200 W | 200W |
| Е | Dimensions (W x H x D) | DS420 | | Front | | 85 x 1150 x 99 mm | | x 99 mm | 180 x 409x 380 mm |
| R | | 0342 | Center/Rear | | 85 x 131x 93.2mm | | 93.2mm | | |
| | | DS403T | | Front/Rear | | 85 x 1150 x 99 mm | | x 99 mm | |
| | | | | Center | | 325 x 85 x 99 mm | | 99 mm | |
| | | DS420 | | ro | nt | 4.4 Kg | | | |
| | Majahta | | | _ | nter/Rear | 0.7Kg | | | 7.0 Kg |
| | Weights | DS40 | | Front/Rear | | 4.4 Kg | | | |
| | | | C | Center 1.6 Kg | | | | | |

HT-DS420S

| | | 5.1ch speaker system | | | | | | |
|--------|-----------------------------|----------------------|-------------------|-------------------|--|--|--|--|
| | Speaker system | Front/Cei | nter/Rear speaker | Subwoofer speaker | | | | |
| | Impedance | 4 Ω x 5 | | 4 Ω | | | | |
| S | Frequency range | 150 Hz~2 | 0 KHz | 30Hz~150 Hz | | | | |
| P E | Output sound pressure level | 85 dB/W/I | М | 86 dB/W/M | | | | |
| A K | Rated input | 60 W | | 100W | | | | |
| Е | Maximum input | 120 W | | 200W | | | | |
| R | Dimensions (W x H x D) | Front | 85 x 1150 x 99 mm | | | | | |
| | | Rear | 85 x 131x 93.2 mm | 200 x 403x 441 mm | | | | |
| | | Center | 325 x 85 x 99 mm | | | | | |
| | | Front | 4.4 Kg | 7.8 Kg | | | | |
| | Weights | Rear | 0.7 Kg | 7.5 1.9 | | | | |
| | | Center | 1.6 Kg | | | | | |



| 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. |
| PBC (PLAYBACK CONTROL) | This is recorded on a video CD (version 2.0). Selected scenes or information can be chosen from the menu displayed on the TV monitor. |
| 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. |
| VIDEO CD | Contains recordings of pictures and sound whose quality is roughly comparable to that of video tape. This player also supports video CDs with playback control (version 2.0). |
| DIGITAL | 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. |
| DIGITAL | 5.1 (or 6) Channel Digital Surround sound reproduced from DVDs and LDs recorded as a digital signals (with Tight disc marking). With better sound quality, dynamic range, and directionality than traditional Dolby surround technology, you can enjoy dynamic, realistic sound. |
| DOLBY DIGITAL PROLOGICII | 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. |

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