SAMSUNG

DIGITAL HOME THEATER SYSTEM

HT-DL200P

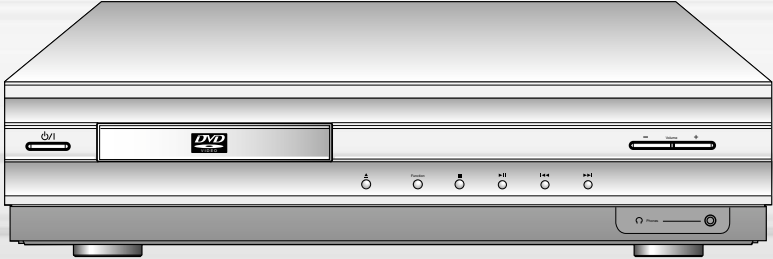**SAMSUNG ELECTRONICS CANADA, INC.**

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SAMSUNG
ELECTRONICS

Instruction Manual

DOLBY DIGITAL PRO LOGIC II | dts | DVD VIDEO | COMPACT disc DIGITAL AUDIO | COMPACT disc DIGITAL VIDEO | MP3 DIGITAL DISC PLAYBACK

Safety Warnings

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

CAUTION
RISK OF ELECTRIC SHOCK.
DO NOT OPEN

⚡ ⚠

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

⚡ This symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.
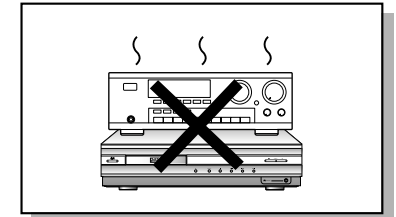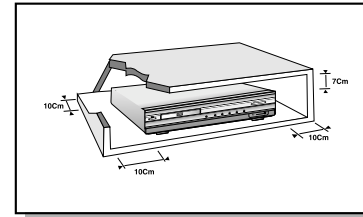
⚠ This symbol alerts you to important operating and maintenance instructions accompanying the unit.

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.

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.

1

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 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.
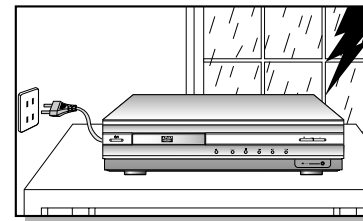

During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lightning could damage the unit.
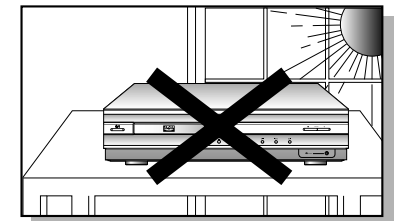
Do not expose the unit to direct sun radiation or other heat sources.
This could lead to overheating and malfunction of the unit.
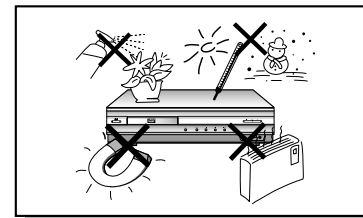
Protect the player from moisture(i.e. vases) , and excess heat(e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...).
Disconnect the power cable from the AC supply if the player malfunctions.
Your player is not intended for industrial use.
Use of this product is for personal use only.
Condensation may occur if your player or disc has been stored in a cold atmosphere.
If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.
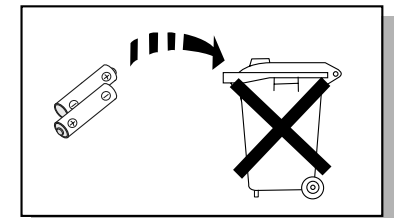
The battery used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.

2

Contents

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.

VIDEO

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.)

Do not use the following types of disc!

- LD, CDG, 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.

Description

Front Panel

GB

Stop (■) button

Play/Pause (▶ⅠⅠ) button

Tuning Down & Skip (Ⅰ◀◀) buttons

Function button

Tuning Up & Skip (▶▶Ⅰ) buttons

Volume control

Power (⏻/Ⅰ) button

Open/Close button

Headphone Jack

Disc Tray

Display

LINEAR PCM indicator

DSP indicator

PBC indicator

TUNER indicator

TITLE indicator

PROGRAM indicator

STEREO indicator

LINEAR PCM DSP TITLE PBC PRGM ST TUNED

L C R
PRO LOGIC
LFE
DIGITAL dts
LS S RS

kHz
MHz

SPEAKER indicator

DTS Disc indicator

DOLBY DIGITAL indicator

System Status Display

PRO LOGIC indicator

RADIO FREQUENCY indicator

5

Rear Panel

COMPONENT VIDEO OUTPUT/INPUT jacks
Connect a TV with component video input jacks to these jacks.

GB

AM Antenna Connector

FM Antenna Connector

S-Video Output Connector
If the TV is equipped with an S-Video input connector (S-VIDEO IN), connect it to the player's S-Video output jack.

5.1 Channel Speaker Output Terminals

Video Output Connector
Connect the TV's video input jacks (VIDEO IN) to the VIDEO OUT connector.

External Audio Component Input Connector

External Digital Component Input Connectors
Use these for connections to external equipment capable of digital output.

Accessories

Remote Control

Video/Audio Cable

AM Antenna

FM Antenna

User's Manual

6

Remote Control Unit

DVD POWER button

DVD button
TUNER button
AUX button

Title button
Menu button
Subtitle button
Audio MO/ST(mono/stereo) button

Display button
Return button
Go To button

DSP/DPL II Effect button
DSP/DPL II Mode button

To open the remote control cover, push the top of the cover, then slide downward.
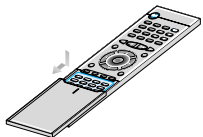
TV Power button
Channel **TV Channel Selection button**
Volume **TV Volume Control button**
TV/VIDEO **TV/VIDEO button**

Play/Pause button
Stop button
Tuning Preset/CD Skip button
Tuning Up/Down/CD Search button

DVD/CD/TUNER
Down   Tuning   Up

Enter

Direction/Enter button

Volume Control buttons
Speaker output volume control

Sleep button
Mute button

Number(0~9) buttons

Slow button
Angle button
Repeat button
Zoom button
P.Scan button

Repeat A↔B button

Setup/P.Scan Adjust button

D.R.C button

Sound Edit
SPK Mode
Pro Logic II
Test Tone

Sound Edit button
SPK Mode button
Pro Logic II button
Test Tone button

Clear button
Step button

Program button

Remain button

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.

30°   30°

7~10m

7

8

GB
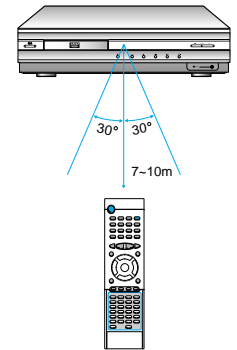
- Connect the satellite speakers, center speaker, and subwoofer to the terminals on the rear panel using speaker cords supplied.
- Insert the end of the speaker cord into the terminal. Match the polarity (colors): Red (+) to red (+) and black (−) to black (−).

Center speaker
Left front speaker
Right front speaker
Subwoofer
Left rear speaker
Right rear speaker

1 Press and hold the terminal tab.

2 Insert the speaker cord.

3 Release your finger.
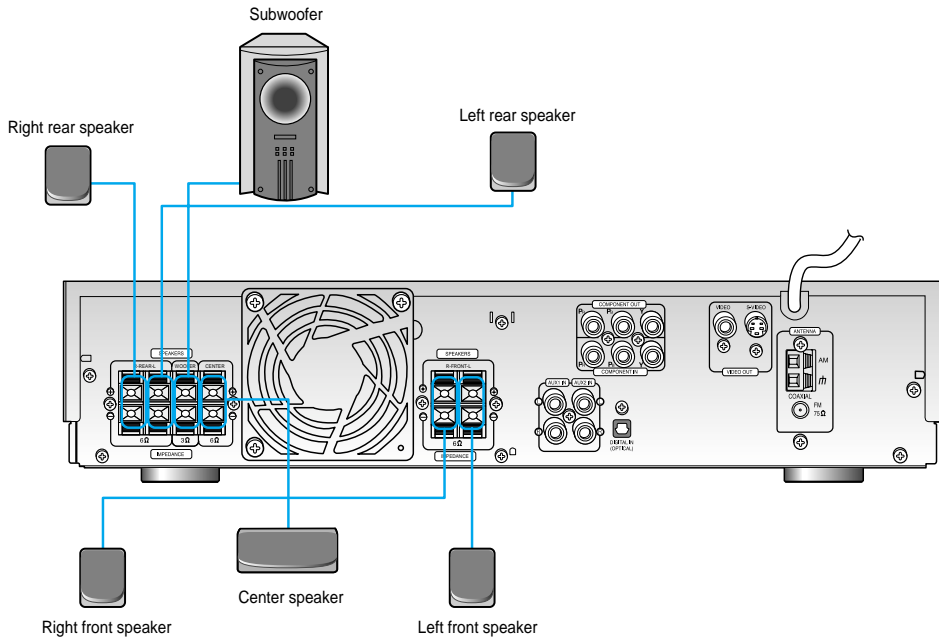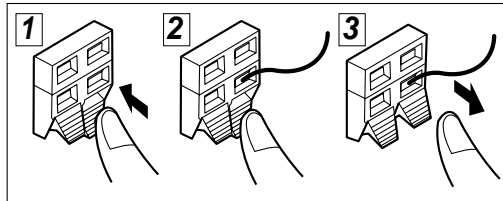
Subwoofer
Right rear speaker
Left rear speaker
Right front speaker
Center speaker
Left front speaker

GB

TV
Component Video
Composite Video
S-Video
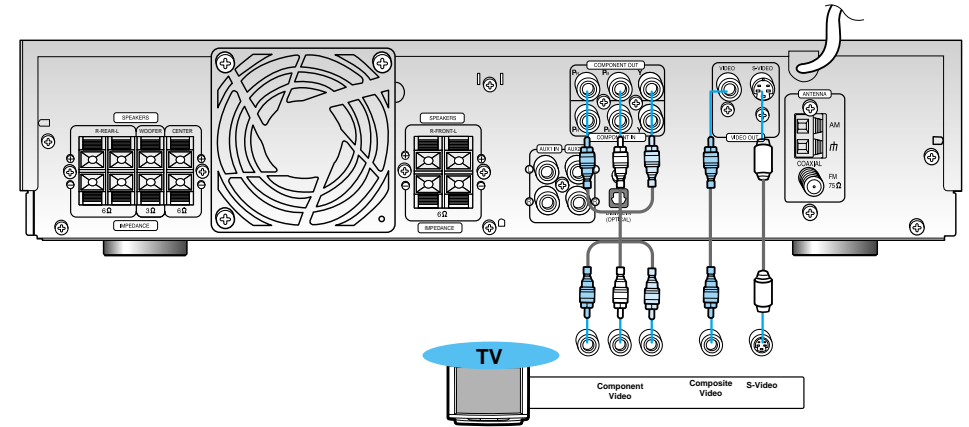
Composite Video (Good Quality)
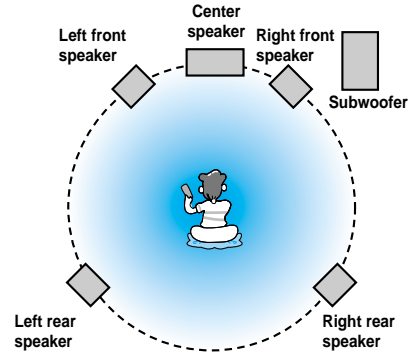Connect the supplied video cable from the VIDEO OUT jack on the back panel of the system to the VIDEO IN jack on your television.

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.

Component 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.

Note • When the Progressive scan mode is selected, the VIDEO and S-VIDEO outputs do not feed any signals.

Connecting the FM and AM(MW/LW) Antennas

1 2 3

If AM reception is poor, connect an outdoor AM antenna(not supplied).

COAXIAL
FM
75Ω

AM Loop Antenna (supplied)

ANTENNA

AM

COAXIAL
FM
75Ω

If FM reception is poor, connect outdoor FM antenna (not supplied).

FM Antenna (supplied)

COAXIAL FM
75Ω

Snap the tabs on the loop into the slots of the base to assemble the AM loop antenna.

Cooling fan (See "About Cooling Fan" below.)

FM antenna connection

1. **Connect the FM antenna supplied to the FM 75Ω COAXIAL terminal.**
2. **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.**

• If reception is poor, connect an outdoor antenna. Before attaching a 75Ω coaxial cable (with a standard type connector), disconnect the supplied FM antenna.
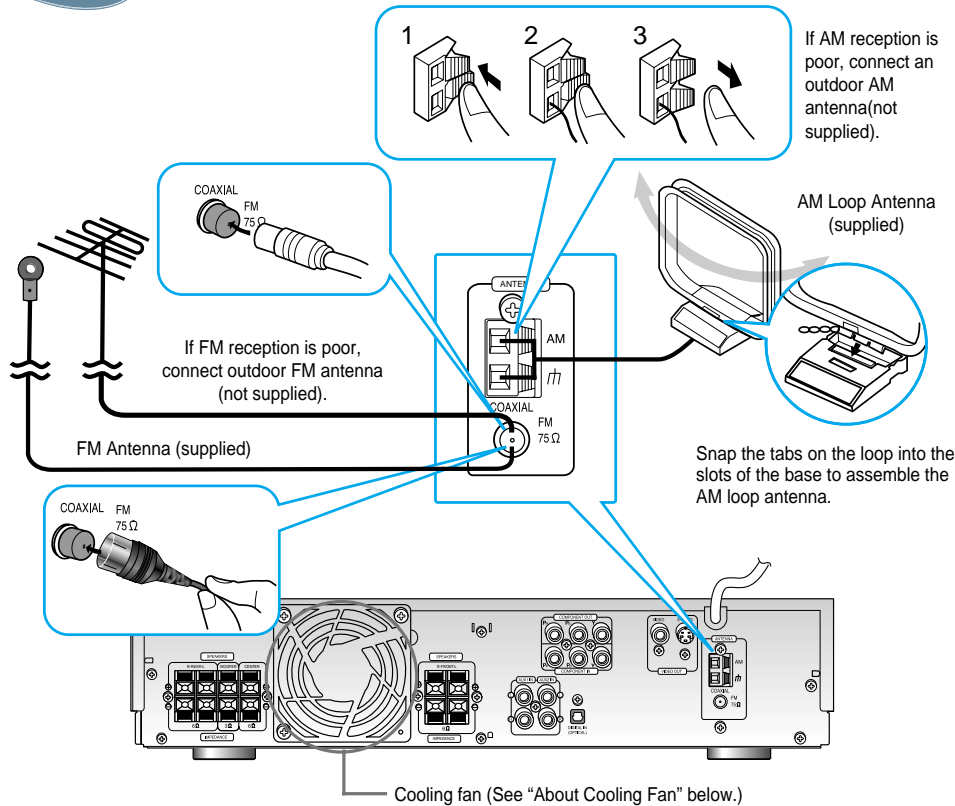
AM(MW) antenna connection

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).**
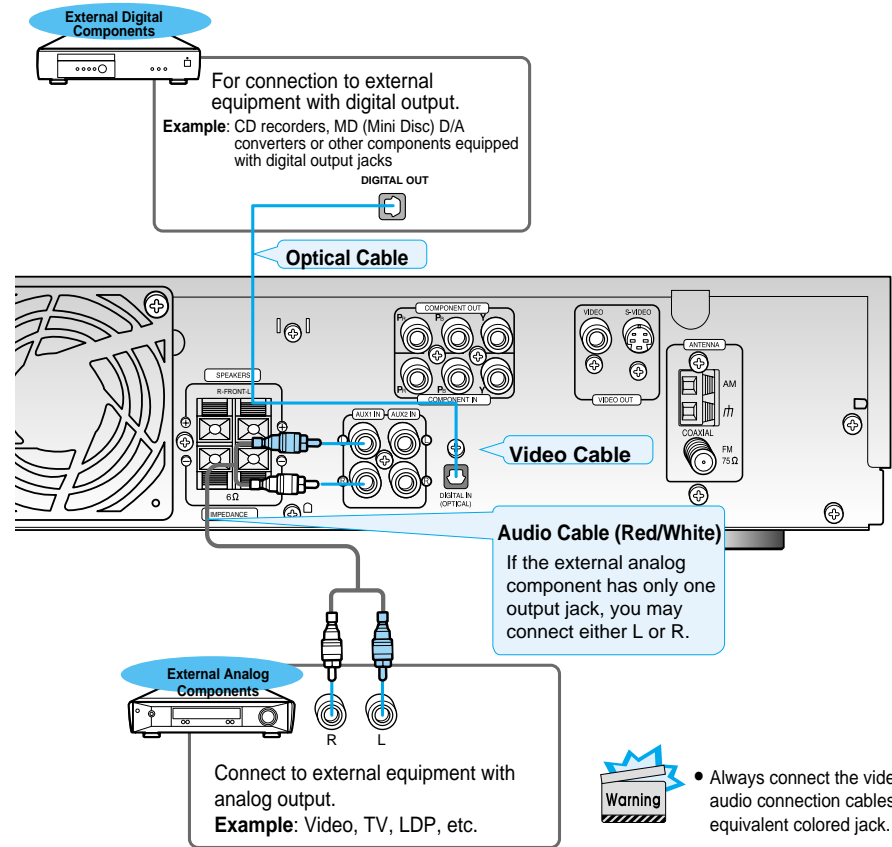
(About the cooling fan)

A cooling fan is mounted on the rear panel of the center unit to prevent abnormal temperature inside the center unit, thus assuring normal operation. The cooling fan automatically starts rotating to supply external cool air to the inside of the center unit when the internal temperature exceeds the specified limit.

For safety, observe the following carefully.

• Make sure there is good ventilation around the center unit. Poor ventilation could overheat and damage the canter unit.
• DO NOT block the cooling fan and the ventilation openings or holes. (If they are blocked by a newspaper or cloth, etc., the heat may not be able to escape.)

11

AUX Connections

External Digital Components

For connection to external equipment with digital output.
Example: CD recorders, MD (Mini Disc) D/A converters or other components equipped with digital output jacks

DIGITAL OUT

Optical Cable

COMPONENT OUT
VIDEO S-VIDEO
ANTENNA
SPEAKERS
R-FRONT-L
COMPONENT IN
VIDEO OUT
AM
COAXIAL
FM
75Ω
AUX1 IN AUX2 IN
6Ω
IMPEDANCE
DIGITAL IN (OPTICAL)

Video Cable

Audio Cable (Red/White)
If the external analog component has only one output jack, you may connect either L or R.

External Analog Components

R L

Connect to external equipment with analog output.
Example: Video, TV, LDP, etc.

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

Making Analog Input Selection

Remote Control — Press the **AUX** button and select AUX1 IN, AUX2 IN.

Main Unit — Press the **Function** button and select AUX1 IN, AUX2 IN.

12

P.SCAN (Progressive Scan) Function

Supports the Progressive scan system, as well as the conventional (current) Interlace scan system.
*To enjoy the progressive video picture, you must connect the unit to a television or monitor that supports the progressive video input.

Setup/P·Adj
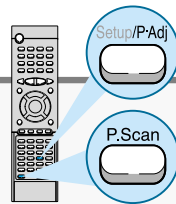
P.Scan

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.

P.Scan Adj (Progressive Scan Adjusting)

This function allows you to optimize the picture quality when it becomes poor due to screen distortion or discs containing erroneous data.
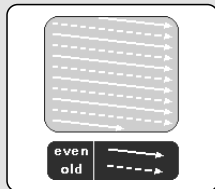
Press the Setup/P·Adj button. (Play mode only)
- Each time the **Setup/P·Adj** button is pressed, the following appears on the TV screen:
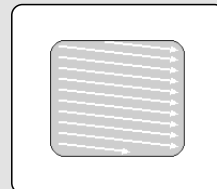
FILM MODE → VIDEO MODE → AUTO MODE

What is Progressive (or Non-Interlaced) Scanning?

Interlaced Scan (1 FRAME = 2 FIELDS)	Progressive Scan (FULL FRAME)
even old	
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 old 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 displayed every 1/60th of a second each. The interlaced scanning method is intended for capturing a still object.	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.

Before Using the DVD Player

Your DVD player is capable of playing DVD, VCD, and CD discs.
User instructions may vary depending on the type of disc. Read the instructions carefully before use.

Prepa-rations before use

1
Turn on the power to your DVD player and TV.

TV

2
Select a video mode by pressing the TV/VIDEO button.

TV/VIDEO

3
Press the DVD button to select the DVD input function.

DVD

Note
- The "**WAIT**" message that appears on the display for about seven to eight seconds when turning on the power or selecting a DVD function indicates a stabilization period for optimizing the condition of your DVD player. While the message is being displayed, other buttons remain inactive.
- When the power is not turned on, press down the Stop (■) button on the main unit for over 5 seconds.
  The product will be initialized to its optimum state.
- Certain operational features such as the Speaker mode, Test tone, Volume, etc. will not be displayed on the TV screen.
- If your TV model is not SAMSUNG, refer to "**Remote Control Unit Setup**" on page 30.

TV Broadcast System

- **This device is designed to work with the NTSC video format.**
- **For normal playback, the video format a DVD disc is recorded in must coincide with your TV's video format.**

Connecting your System to the Power Supply

The AC plug must be plugged into an appropriate socket.
Before plugging your system into an AC outlet, you must check the voltage.

1. Plug the AC Cord on the rear of the system into an appropriate outlet.
2. Press the On/Standby button to switch your DVD Player system on.

DVD Playback

GB

1
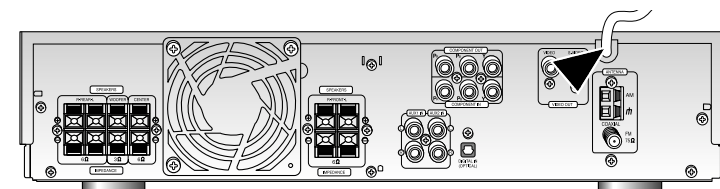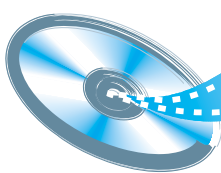
Press the **Open/Close**(▲) button to open the disc tray.

- The button is located on the Front Panel of the player (not on the remote).

2

Insert a disc.

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

3

Press the **Open/Close**(▲) button again to close the disc tray.

- Playback starts automatically.

Pausing Playback

Press the Play/Pause (▶II) button during playback.

- To resume, press the Play/Pause (▶II) button again.

Note Depending on the disc, the initial disc information screen may look different from disc to disc.

Stopping Playback

Press the Stop (■) button during playback.

- During playback, when the Stop (■)button is pressed, the position is stored in the memory, and ▶■ STOP is shown on the display.
When the Play/Pause (▶II) button or Return button is pressed subsequently , playback resumes from the position at which it was stopped.
- If the Stop (■) button is pressed a second time, the 'resume play' memory function is canceled, and ■ STOP is shown on the display. When the Play/Pause (▶II)button is pressed, playback starts from the beginning.

Using the On-Screen Display

Press the Display button on the remote.

Display

Display

Display

$T_{1/2}$ $C_{1/8}$ 00:00:00

DVD indicator   **TITLE indicator**   **CHAPTER indicator**   **TITLE ELAPSED indicator**

ENG ENG 1/3 dts OFF 1/1

SUBTITLE LANGUAGE indicator
AUDIO LANGUAGE indicator
DISC TYPE indicator
REPEAT indicator
ANGLE indicator

The On-Screen Display disappears.

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".

Turning the sound off temporarily?

Mute

Press the Mute button during playback.

- This operation may be useful when you need to greet guests or answer the telephone.

Note If the player is left for more than 3 minutes in pause mode, it will stop.

15

16

GB

GB

Display

DVD

DVD VIDEO

DVD VIDEO

Display

Display

Display

Display

Forward/Reverse Searching

During playback, you can search quickly through a chapter or track for a specific scene or tune.

Multi-Speed Playback

DVD VCD CD

Press the ◀◀ and ▶▶ button.

Each time the ◀◀ button is pressed

◀◀ X 2
↓
◀◀ X 4
↓
◀◀ X 8
↓
◀ PLAY

Each time the ▶▶ button is pressed

▶▶ X 2
↓
▶▶ X 4
↓
▶▶ X 8
↓
▶ PLAY

Skipping through a Chapter

DVD VCD CD

Press the I◀◀ and ▶▶I button.

• Each time the button is pressed during playback, it moves to the next or previous chapter and plays it.

I◀◀ SEARCH   ▶▶I SEARCH
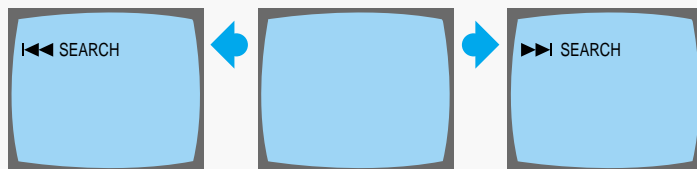
DVD VCD **Playing Frame by Frame**

Step

Press the Step button.

• The picture moves forward one frame each time the button is pressed.

Note No sound is heard during high-speed playback, slow playback, and step motion.

17

Slow Playback/Checking the Remaining Time

Playing Slowly

Slow

DVD VCD

Press the Slow button.

Each time the Slow button is pressed

DVD

I▶ SLOW 1/2
↓
I▶ SLOW 1/4
↓
▶ PLAY
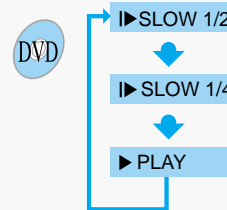
VCD The slow playback speed changes and the selections (1/2X, 1/4X, 1/8X, 1/16X and normal play) are repeated.

Checking the Remaining Time

Remain

DVD VCD CD

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

DVD

TITLE TIME
↓
REMAIN TIME : TITLE
↓
CHAPTER TIME
↓
REMAIN TIME : CHAPTER

VCD CD

TRACK TIME
↓
REMAIN TIME : TRACK
↓
DISC TIME
↓
REMAIN TIME : DISC

18
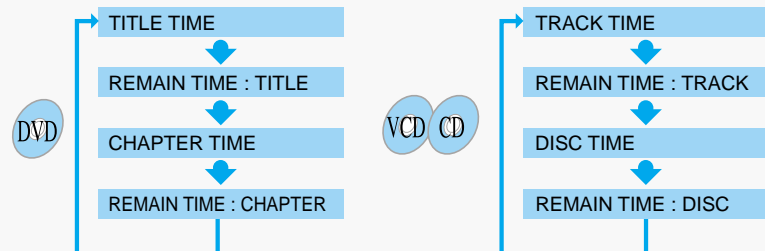
Repeat Playback

Repeat playback allows you to repeat a chapter, title, or track.

Playing Repeatedly

Repeat

DVD VCD CD

Press the Repeat button.

Each time the Repeat button is pressed

DVD

| REPEAT : CHAPTER |
| REPEAT : TITLE |
| REPEAT OFF |

VCD CD

| REPEAT : ONE |
| REPEAT : DISC |
| REPEAT OFF |

Note
- Repeat playback operation is not possible with version 2.0 VCD discs if PBC is turned on. To operate this feature, press the MENU button, and then select "PBC OFF".

A↔B Repeat Playback

Repeat
A↔B

DVD VCD CD

1 Press the **Repeat A↔B** button at the beginning (A) of the segment you want to review.

2 Press the **Repeat A↔B** button again at the end (B) of the segment you want to review.
- The segment will begin repeating.

To return to normal playback

Press the **Repeat A↔B** button again.

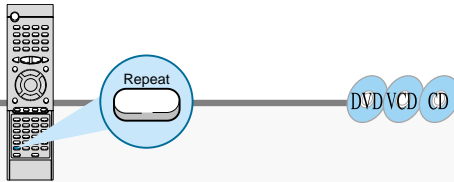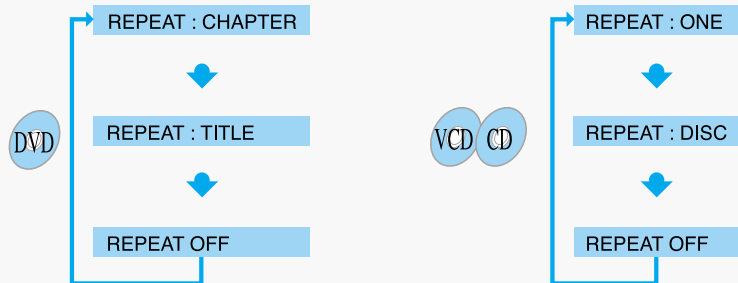| REPEAT : A- |
| REPEAT : A - B |
| REPEAT OFF |
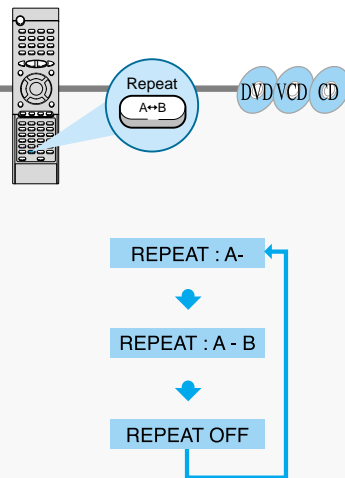
Using Disc Menu/Title

To Select the Disc Menu

Menu

DVD

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

1

Press the **Menu** button during playback.

- The Menu Screen appears.
- When playing VCD version 2.0, you can operate it using PBC On/Off function.

2

Use the **Up/Down** (▲ / ▼) or **Left/Right**(◄ / ►) button to access the different features.

3

Press the **Enter** button.

- The selected item will play.

Using the Title Menu

Title

DVD

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.
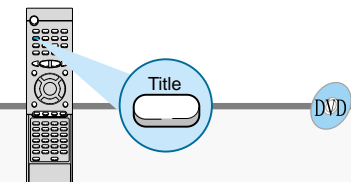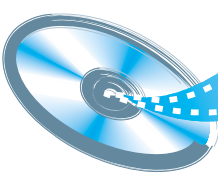
Program Playback

Use this function to program chapters or tracks in a particular order.

To Program Tracks in a particular order

Program

DVD

1
Press the **Program** button.

2
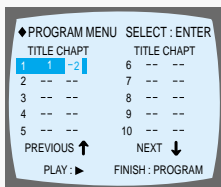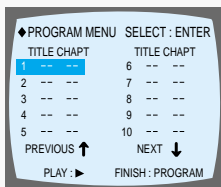Press the **Enter** button, then use the Number buttons to select the desired title.

- You can also use the **Left/Right** (◄ / ► / ▲/ ▼) button.

3
Press the **Enter** button, then use the Number buttons to select the desired chapter.

- You can also use the **Left/Right** (◄ / ► / ▲/ ▼) button.

```
◆ PROGRAM MENU   SELECT : ENTER
 TITLE CHAPT        TITLE CHAPT
 1   --  --       6   --  --
 2   --  --       7   --  --
 3   --  --       8   --  --
 4   --  --       9   --  --
 5   --  --      10   --  --
 PREVIOUS ↑        NEXT ↓
    PLAY : ►     FINISH : PROGRAM
```

```
◆ PROGRAM MENU   SELECT : ENTER
 TITLE CHAPT        TITLE CHAPT
 1  --1            6   --  --
 2   --  --       7   --  --
 3   --  --       8   --  --
 4   --  --       9   --  --
 5   --  --      10   --  --
 PREVIOUS ↑        NEXT ↓
    PLAY : ►     FINISH : PROGRAM
```

```
◆ PROGRAM MENU   SELECT : ENTER
 TITLE CHAPT        TITLE CHAPT
 1   1   --2       6   --  --
 2   --  --       7   --  --
 3   --  --       8   --  --
 4   --  --       9   --  --
 5   --  --      10   --  --
 PREVIOUS ↑        NEXT ↓
    PLAY : ►     FINISH : PROGRAM
```

4
Press the **Enter** button.

- The selected track number is programmed and the cursor moves to the next number.

```
◆ PROGRAM MENU   SELECT : ENTER
 TITLE CHAPT        TITLE CHAPT
 1   1   2         6   --  --
 2   --  --       7   --  --
 3   --  --       8   --  --
 4   --  --       9   --  --
 5   --  --      10   --  --
 PREVIOUS ↑        NEXT ↓
    PLAY : ►     FINISH : PROGRAM
```

5
At this time, you can continue programming if you want to.

- When programming more than 10 tracks, select NEXT↓ and then press the **Enter** button. The program selection screen where you can program up to 10 additional tracks appears.

```
◆ PROGRAM MENU   SELECT : ENTER
 TITLE CHAPT        TITLE CHAPT
 1   1   2         6   4   1
 2   1   2         7   6   2
 3   1   7         8   3   4
 4   2   3         9   5   5
 5   2   4        10   1   2
 PREVIOUS ↑        NEXT ↓
    PLAY : ►     FINISH : PROGRAM
```
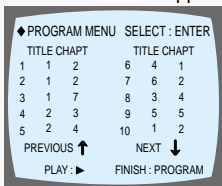
To Playback the Tracks in Programmed Order

Press the **Play/Pause** (►ΙΙ) button.

To Leave the Programming Mode • • • • Press either the **Program** or **Stop** (■) button.

To Change the Program

DVD

1
Press the **Up/Down** (▲/▼) button to select the track number to be changed.

2
Press the **Enter** button to select the title or chapter to be changed.

- The cursor moves to the next number when the **Enter** button is pressed again.

3
Press the **Clear** button and then press the Number buttons.

- You can also use the **Left/Right** (◄ / ►) button.

4
Press the **Enter** button.

- The cursor moves to the number below.

5
Repeat steps 1-4 above to change the program.

To delete the entire Program

- Press the **Stop** (■) button twice during playback.

- Press the **Stop** (■) button once when in the Stop mode.

- Press the **Open/Close** (▲) button on the main unit. The disc tray will open and then close. The program will then be deleted.

When you have entered a wrong number

Clear

Press the Clear button.

- When you want to delete a selection during programming, select the track (or chapter, or title) to be deleted and then press the **Clear** button.

Note You can program or change particular tracks for VCD or CD discs in the same manner.

Selecting the Audio Language/Subtitle Language

Selecting the Audio Language

Audio MO/ST — DVD

Press the Audio button.

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

DVD VIDEO ENG ENG 1/3 dts OFF 1/1
ENG 1/3
SPA 2/3
FRE 3/3
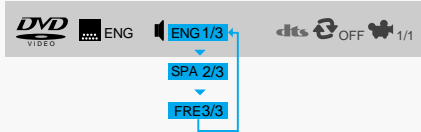
Note ● Depending on the disc, DTS or DIGITAL PRO LOGIC can be selected.

Selecting the Subtitle Language

Subtitle — DVD

Press the Subtitle button.

- Depending on the number of languages recorded on a DVD disc, a different subtitle language (ENGLISH, SPANISH, FRENCH etc.) is selected each time the button is pressed.
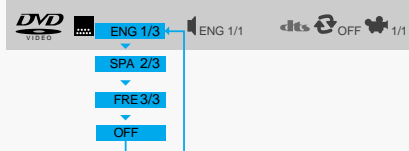- To make the subtitles disappear, select "OFF".

DVD VIDEO ENG 1/3 ENG 1/1 dts OFF 1/1
ENG 1/3
SPA 2/3
FRE 3/3
OFF

Note ● If the word ⊘ INVALID appears on the TV screen while buttons are being operated, that operation is not possible with that particular disc.
● Depending on the disc, the audio or subtitle language function may not work.

23

Various DVD Functions

To enlarge an image

Zoom — DVD VCD

Press the Zoom button.

- Images can be enlarged 2x and 4x.
- During DVD playback, press the **Zoom** button to zoom in 2X/4X/normal, in that order.
- Press ◄ / ► / ▲ / ▼ to move the enlarged portion you want to watch.
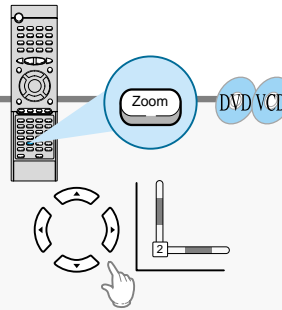
Note
● Only 2X zoom operation is possible during VCD playback.

Selecting the desired Screen Angle

Angle — DVD

Press the Angle button.

- This function only works with discs on which multiple angles have been recorded.
- During playback, press the **Angle** button to select the desired angle in 1/3, 2/3, 3/3, normal, in that order.

OFF 1/3
2/3
3/3
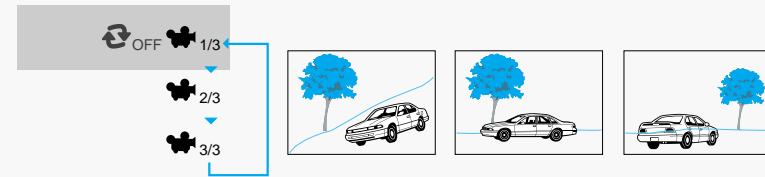
To move directly to a title, chapter, or time

Go To — DVD

1
Press the **Go To** button.

- Each time the button is pressed, it repeats as shown below.

TITLE — — → CHAPTER — — → TIME — — : — : — —

2
Press Number(0~9) buttons or the **Left/Right** (◄ / ►) button.

- Each time the buttons are pressed the desired scene is located and then played.
- Depending on the disc, the Title function may not work.

24
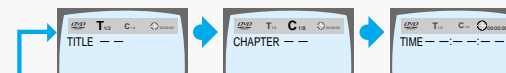
MP3 Playback

This system has a built-in MP3 decoder.
You can play back MP3 tracks (files)recorded on CD-Rs, CD-RWs, and CD-ROMs.

Starting Playback

- It is recommended you turn on your TV when playing back an MP3 disc.

1

Press the **Open/Close**(⏏) button to load a disc.
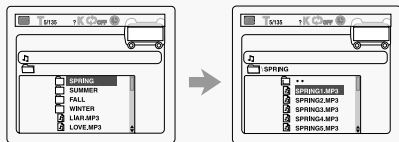
2

Press the **Play/Pause**(▶II) button.

- After detecting the disc, playback starts.
- The on-screen bar and the contents recorded on the MP3 disc will be shown on the TV if it is turned on.

```
   1       2        3   4              5
  [II]    T 1/35    128 K  OFF  00:22/03:48
                                          [====]
                                           6
```

1 : Disc type

    DVD [DVD]   VCD [VCD]   CD [CD]   MP3 [II]

2 : Current track (file) and total number of the tracks on the disc
    ・ Ex.: 1st track is playing out of 35 tracks recorded.

3 : Bit rate
    ・ Ex.: Bit rate used for recording the loaded disc is 128 Kbps. (See below)

4 : Repeat mode indicator
    ・ Ex.: When repeat mode is turned off.

5 : Elapsed playing time and the total playing time of the current track

6 : Sound indication
    ・ Indicates sound input level. (Only appears during playback.)

To stop during playback

●●● Press the **Stop** (■) button.

What is MP3?

MP3 is an abbreviation of Motion Picture Experts Group (or MPEG) Audio Layer 3. MP3 is simply a file format with a data compression ratio of 1:10 (128 Kbps*).
That means,by using MP3 format, one CD-R or CD-RW can contain 10 times as much data volume as a regular CD can.
*Bit rate is the average number of bits that one second of audio data will consume. The measuring unit used is Kbps (1000 bits per second).
To obtain better audio quality, choose a higher bit rate. The most popular bit rate for encoding (recording)is 128 Kbps.

MP3 File Compatibility

- This system can only read MP3 files that are recorded in the format that is compliant with ISO 9660 Level 1 or Level 2.
- The system can read or play MP3 files only with the extension code —".mp3 ".
- ID3*tags cannot be shown on the display.
- *An MP3 file can contain file information called "ID3 Tag " where its album name, performer, track title, etc. are recorded.

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Operations Using the On-Screen Display

Turn on your TV when playing back an MP3 disc.

When the loaded MP3 disc is recognized, the following on-screen display appears on the TV screen.
(The contents of this on-screen display vary according to the disc — the way MP3 tracks were recorded on the disc.)
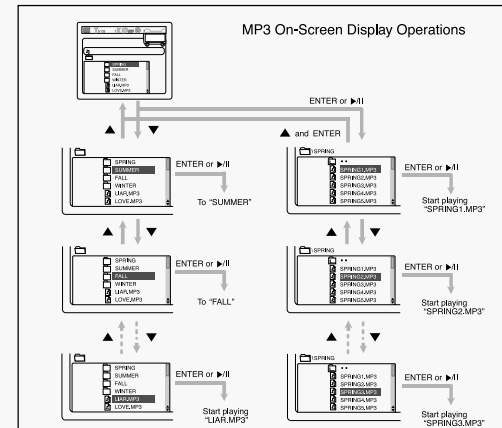
Button	To do
ENTER, ▶II	Start playback or go into a directory.
▲/▼	Select a track or directory.

MP3 On-Screen Display Operations

CD-R/RW playback compatibility

- Your DVD player can also play CD-R and CD-RW discs recorded in digital audio format. When recording your own CD-R or CD-RW discs, make sure that the recording session is properly terminated, or they will not be playable. (Depending on disc properties and recording quality, some CD-R/RWs may not be playable.)
- CD-RW has a lower reflection rate than CD-R media and consequently it will take a longer to read CD-R discs.
- CD-RW discs recorded at high speed tend to be difficult for the DVD player to read. If the recording speed for the CD-RW disc is not predetermined, write it at low speed.

Repeating Playback

Repeat

On an MP3 disc, Repeat A↔B cannot be used. You can enjoy only repeat play.

Press the REPEAT button.
The indication corresponding to the selected mode appears on the TV screen.

- Each time you press the button, repeat mode changes as follows:

```
  → REPEAT:RANDOM → REPEAT:ONE
  REPEAT OFF ← REPEAT:DISC ← REPEAT:DIR
```
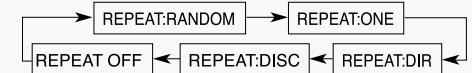
REPEAT:RANDOM
    : All tracks recorded on the disc will be played once in random order.
REPEAT:ONE
    : Current track will be repeated.
REPEAT:DIR
    : Tracks in the current directory will be repeated.
REPEAT:DISC
    : All tracks on the disc will be repeated.
REPEAT OFF
    : Repeat play is canceled.(Normal play is resumed.)

26

System Setup

You can use the DVD player's Setup function to select the TV screen ratio,
rating limit, or digital output mode.

Setup/P·Adj

DVD

To Set up the System

1

From the stop mode, press the **Setup/P·Adj** button.

LANGUAGES	SYSTEM
OSD LANGUAGE	**ENGLISH**
AUDIO	**CHINESE**
SUBTITLE	**CHINESE**
MENU LANGUAGE	**CHINESE**
↑↓←→: Move	Setup : Exit

2

Press the **Left/Right** (◄/ ►) button to select the system.

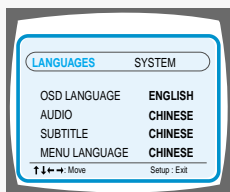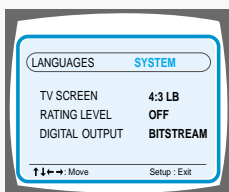| LANGUAGES	**SYSTEM**
TV SCREEN	**4:3 LB**
RATING LEVEL	**OFF**
DIGITAL OUTPUT	**BITSTREAM**
↑↓←→: Move	Setup : Exit

3

Press the **Up/Down** (▲/▼) button to select the desired item.

LANGUAGES	**SYSTEM**
TV SCREEN	**4:3 LB**
RATING LEVEL	**OFF**
DIGITAL OUTPUT	**BITSTREAM**
↑↓←→: Move	Setup : Exit

4

Press the **Enter** button or Right (►) button.

LANGUAGES	**SYSTEM**
TV SCREEN	**4:3 LB**
RATING LEVEL	**OFF**
DIGITAL OUTPUT	**BITSTREAM**
↑↓←→: Move	Setup : Exit
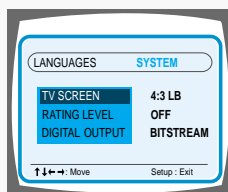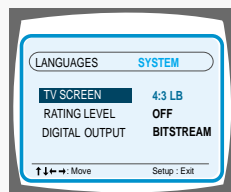
5

Press the **Up/Down** (▲/▼) button to select the desired sub-item and then press the **Enter** button.

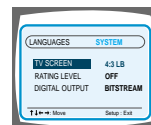| LANGUAGES	**SYSTEM**
TV SCREEN	✓**4:3 LB**
RATING LEVEL	**4:3 PS**
DIGITAL OUTPUT	**16:9**
↑↓←→: Move	Setup : Exit
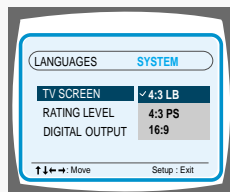
Setup/P·Adj

To End the System Setup • • • •

● Press the **Setup/P·Adj** button again.

TV SCREEN(TV SCREEN RATIO)

Select when you want to watch a 16:9 screen ratio DVD movie on a TV with a 4:3 ratio screen.

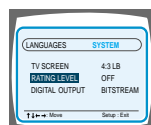| LANGUAGES	SYSTEM
TV SCREEN	4:3 LB
RATING LEVEL	OFF
DIGITAL OUTPUT	BITSTREAM
↑↓←→:Move	Setup : Exit

4:3LB You can see the full 16:9 picture, but black bars will appear at the top and bottom of the screen.

4:3PS You can only view the central portion of the 16:9 screen.

16:9 You can view in widescreen, but the top and bottom of the picture will be cut off.
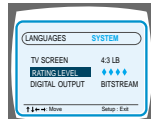
● If the movie is recorded in 4:3 ratio, you cannot view the full 16:9 picture with the above functions.

RATING LEVEL

The Rating Level function works in conjunction with DVDs which have been assigned a rating, to help control the type of DVD that your family watches.

LANGUAGES	SYSTEM
TV SCREEN	4:3 LB
RATING LEVEL	OFF
DIGITAL OUTPUT	BITSTREAM
↑↓←→: Move	Setup : Exit

1. Select RATING LEVEL, then press the Enter button.

LANGUAGES	SYSTEM
TV SCREEN	4:3 LB
RATING LEVEL	◆◆◆◆
DIGITAL OUTPUT	BITSTREAM
↑↓←→: Move	Setup : Exit

2. Use the number(0~9) buttons to input a 4-digit password.

● The player's password is set to "7890" by default.

LANGUAGES	SYSTEM
TV SCREEN	4:3 LB
RATING LEVEL	OFF
DIGITAL OUTPUT	1
	2
↑↓←→: Move	5

When the rating level password has been forgotten

While the player is in the stop mode, hold the **Stop** (■) button down on the main unit for more than 5 seconds.

● "INITIAL" appears on the display and all default settings will return to Factory Preset.

● Press the **Power** button.
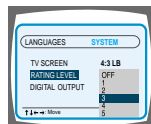
3. Use the Up/Down (▲/▼) button to select either RATING LEVEL or NEW PASSWORD, and then press the Enter button.

● There are up to 8 rating levels on a disc.

● If LEVEL 6 is selected, a disc which contains rating LEVEL 7 and above cannot be played.

● If you select NEW PASSWORD, the screen changes and enables you to enter the new password.

Setting up the Language Features

Using the DVD player's Setup function, you can customize the Menu Language, Subtitle Language, and Disc Menu Language.

Setup/P·Adj

DVD

To set up the language feature

1

Press the **Setup/P·Adj** button from the stop mode.

```
LANGUAGES       SYSTEM

OSD LANGUAGE    ENGLISH
AUDIO           CHINESE
SUBTITLE        CHINESE
MENU LANGUAGE   CHINESE
↑↓←→ : Move           Setup : Exit
```
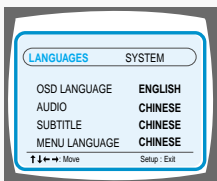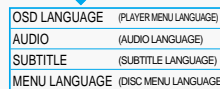
2

Press the **Up/Down** (▲/▼) button to select the desired item.

```
LANGUAGES       SYSTEM

OSD LANGUAGE    ENGLISH
AUDIO           CHINESE
SUBTITLE        CHINESE
MENU LANGUAGE   CHI NESE
↑↓←→ : Mo            Setup : Exit
```

OSD LANGUAGE	(PLAYER MENU LANGUAGE)
AUDIO	(AUDIO LANGUAGE)
SUBTITLE	(SUBTITLE LANGUAGE)
MENU LANGUAGE	(DISC MENU LANGUAGE)

3

Press the **Enter** button or **Right** (▶) button.

```
LANGUAGES       SYSTEM

OSD LANGUAGE    ENGLISH
AUDIO           CHINESE
SUBTITLE        CHINESE
MENU LANGUAGE   ENGLISH
↑↓←→ : Move           Setup : Exit
```
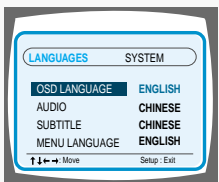
4

Press the **Up/Down** (▲/▼) button to select the desired language and then press the **Enter** button.

```
LANGUAGES       SYSTEM

OSD LANGUAGE    ✓ENGLISH
AUDIO           CHINESE
SUBTITLE        FRENCH
MENU LANGUAGE   GERMAN
↑↓←→ : Move          JAPANESE
```
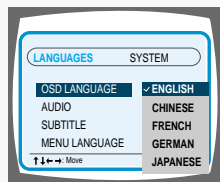
To End the Language Features Setup

Setup/P·Adj

• Press the **Setup/P·Adj** button again.

29

Controlling a TV with the Remote

The remote can also be set up to control most TVs. To program the remote, use the code that corresponds to your brand.

1
Turn on the TV.

2
Point the DVD's remote at the TV.

3

3
While holding the ⏻ **TV** button down, enter the code for your brand.

Code	Brand	Code	Brand
01	SAMSUNG 1	16	SHARP 3
02	SHARP 2	17	ZENITH
03	SONY	18	LG 3
04	MAGNAVOX	19	DAEWOO 8
05	SANYO 1	20	SANYO 2
06	LG 2	21	EMERSON
07	RCA	22	SHARP 3
08	LG 1	23	SAMSUNG 4
09	TOSHIBA	24	MATSUSHITA
10	HITACHI	25	NOBLEX
11	JVC	26	TELEFUNKEN
12	PANASONIC 1	27	NEWSAN
13	MITSUBISHI 2	28	LOEWE
14	SAMSUNG 2	29	RCA2
15	SAMSUNG 3		

example : For SAMSUNG 1TVs
While holding down the ⏻ **TV** button, enter ⓪ + ① .

Note
• If your TV does not switch from VIDEO mode to TV mode, press the TV POWER(⏻/|) button twice.
• The remote may not be able to control every model TV of the brands listed.

4
If the TV turns off, setup is complete.

Activating Dynamic Range Compression

D.R.C

DVD

You can enjoy a powerful sound even at a low volume level by compressing the dynamic range (difference between the maximum and minimum sounds).
From the remote control ONLY:
Press the D.R.C button.
• Each time you press the button,the dynamic range compression mode alternates between on and off. Select "**D.R.C.ON** " while watching the DVD at night. (You can obtain a powerful sound at a low volume.)
• This function takes effect only when Dolby Digital or DTS Digital Surround is activated.

```
D.R.C. ON
```

30
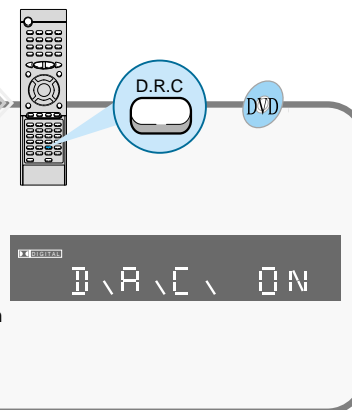
Speaker Setup

Setting up Speaker Mode and Delay Time

SPK Mode

DVD

1

Press the SPK Mode button.

2

Press the **Left/Right** (◄ / ►) button to select the desired item.

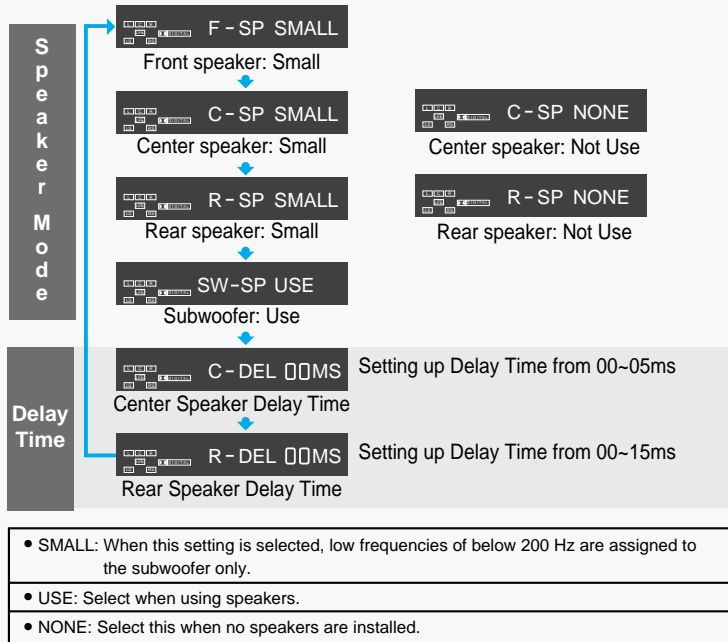- Each time the button is pressed, a different mode selection is displayed on the front panel display as shown below.

Speaker Mode

F - SP SMALL
Front speaker: Small

C - SP SMALL
Center speaker: Small

C - SP NONE
Center speaker: Not Use

R - SP SMALL
Rear speaker: Small

R - SP NONE
Rear speaker: Not Use

SW - SP USE
Subwoofer: Use

Delay Time

C - DEL 00MS
Center Speaker Delay Time — Setting up Delay Time from 00~05ms

R - DEL 00MS
Rear Speaker Delay Time — Setting up Delay Time from 00~15ms

- SMALL: When this setting is selected, low frequencies of below 200 Hz are assigned to the subwoofer only.
- USE: Select when using speakers.
- NONE: Select this when no speakers are installed.

Note The display changes depending on the current audio output mode (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.).

To set the delay time

- When 5.1 Channel Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same. You can set Delay Time in the Center/Rear Speaker to customize the sound to the acoustics of your room.
- 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 on the table.
- Setting Rear 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.
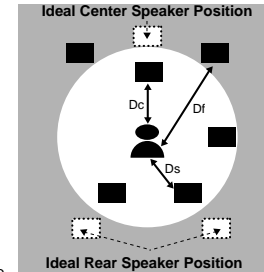
(A)=Df-Dc

| Distance of (A)	Value
50	1.3ms
100	2.6ms
150	3.9ms
200	5.3ms

(B)=Df-Ds

Distance of (B)	Value
200	5.3ms
400	10.6ms
600	15.9ms

Dc: Distance from center speaker to listening position
Df: Distance from front speakers to listening position
Ds: Distance from rear speakers to listening position

Ideal Center Speaker Position

Ideal Rear Speaker Position

Arrange all speakers within a circle as shown in the figure.

Speaker Setting Methods
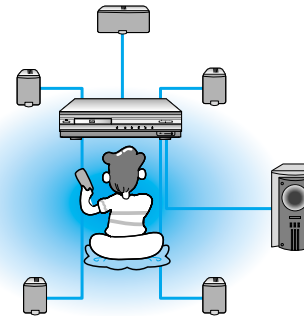
Front Speakers ● ● ●

Set the front speakers so that their tweeters (high-range) are aligned at about ear level and at a horizontal angle of 45° to the prime listening position.

Center Speaker ● ● ●

Ideally the center speaker should be positioned with its top surface flush with the front speakers. However, you may place the speaker either on top or near the bottom of your TV set.

Rear Speakers ● ● ●

Set the rear speakers further back, parallel to the walls, at 60 to 90 centimeters (2 to 3 feet) above prime listening position ear level.
If the space behind the listening position is insufficient (i.e., too close to the wall), place the rear speakers facing each other on either side.

Subwoofer Speaker ● ● ●

Place the subwoofer at any convenient location within the vicinity of the listening position.

Speaker Setup

To set up Speaker Balance

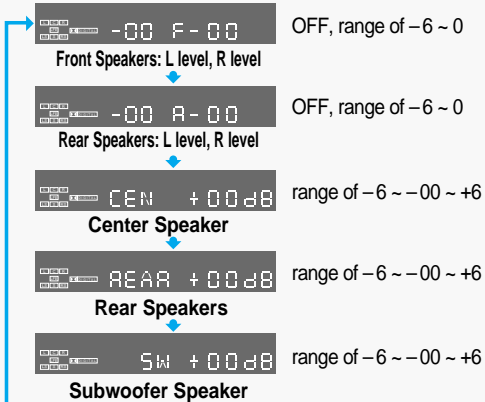**Sound Edit**

DVD VCD CD

1

Press the **Sound Edit** button. Each time the button is pressed the selection switches as shown below.

2

Use the **Left/Right** (◀ / ▶) button to raise or lower the output level of the chosen speaker(s).

Example: 5.1CH Sound Setup

`-00 F-00`   OFF, range of − 6 ~ 0
Front Speakers: L level, R level

`-00 A-00`   OFF, range of − 6 ~ 0
Rear Speakers: L level, R level

`CEN +00dB`   range of − 6 ~ −00 ~ +6
Center Speaker

`REAR +00dB`   range of − 6 ~ −00 ~ +6
Rear Speakers

`SW +00dB`   range of − 6 ~ −00 ~ +6
Subwoofer Speaker

Note The display changes depending on the current audio output mode (DSP, PRO LOGIC, 3-STEREO, STEREO, etc.).

Speaker Setting Methods

Test Tone

DVD VCD CD

Press the Test Tone button.

- The test signal will be sent to the Left Front, Center, Right Front, Right Rear, Left Rear and Subwoofer in that order.

Test Tone

L	C	R
	LFE	
LS		RS

To End the Speaker Setup

- Press the **Test Tone** button again.

Note While in DSP or PRO LOGIC mode, TEST TONE may operate differently for VCDs or CDs.

33

Creating Realistic Sound Fields

You can use the following surround to reproduce a realistic sound field.
- Digital Multichannel Surround —Dolby Digital and DTS Digital Surround
- Dolby Pro Logic Ⅱ

Dolby Digital and DTS Digital Surround

To enjoy surround effectively, all the speakers need to be connected and activated.

Dolby Digital
Used to reproduce multichannel sound tracks of the software encoded with Dolby Digital (DOLBY DIGITAL).

Dolby Digital encoding method (discrete 5.1 channel digital audio format)records and digitally compresses the left front channel,right front channel,center channel,left rear channel,right rear channel,and LFE channel signals (total 6 channels,but LFE channel is counted as 0.1 channel.Therefore, LFE is called the 5.1 channel).
In addition,Dolby Digital enables stereo rear sounds,and sets the cutoff frequency of the rear treble at 20 kHz,compared to 7 kHz for Dolby Pro Logic.These facts result in better sound quality than Dolby Pro Logic.

When the system detects Dolby Digital signals,the DOLBY DIGITAL indicator lights up on the display.

DTS Digital Surround
Used to reproduce multichannel sound tracks of the software encoded with DTS Digital Surround (DTS DIGITAL SURROUND).

DTS Digital Surround is another discrete 5.1 channel digital audio format available on CD,LD,and DVD software.
Compared to Dolby Digital,audio compression rate is relatively low.
This fact allows DTS Digital Surround format to add breadth and depth to the reproduced sounds.As a result,DTS Digital Surround features natural,solid and clear sound.

When the system detects DTS Digital Surround signals, the DTS indicator lights up on the display.

Dolby Pro Logic II

- Dolby Pro-Logic II is a new multi-channel playback format developed by Dolby Laboratories using feedback logic steering technology and offering improvements over conventional Dolby Pro Logic circuits.
- Dolby Pro Logic II can be used to decode not only sources recorded in Dolby Surround (DOLBY SURROUND) but also regular stereo sources into five channels (front left, front right, center, surround left and surround right) to achieve surround sound.
- Whereas with conventional Dolby Pro Logic the surround channel playback frequency band was limited, Dolby Pro Logic II offers a wider band range.
  In addition, the surround channels were monaural (the surround left and right channels were the same) with previous Dolby Pro Logic, but with Dolby Pro Logic II they are stereo.

* Sources recorded in Dolby Surround
These are sources in which three or more channels of surround have been recorded as two channels of signals using Dolby Surround encoding technology.
Dolby Surround is used for the sound tracks of movies recorded on DVDs, LDs and video cassettes to be played on stereo VCRs, as well as for the stereo broadcast signals of FM radio, TV, satellite broadcasts and cable TV.
Decoding these signals with Dolby Pro Logic makes it possible to achieve multi-channel surround playback.
The signals can also be played on ordinary stereo equipment, in which case they provide normal stereo sound.

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Dolby Pro Logic II decoder

Mode

Pro Logic II

Dolby Pro Logic II

DVD VCD CD

Dolby Pro Logic II is a new format for playing multichannel audio signals that offers improvements over conventional Dolby Pro Logic. It can be used to decode not only sources recorded in Dolby Surround, but also regular stereo sources into five channels (front left/right, center and surround left/right). In addition, various parameters can be set according to the type of source and the contents, so you can adjust the sound field with greater precision.

1

Press the **Function** button to select the desired function.

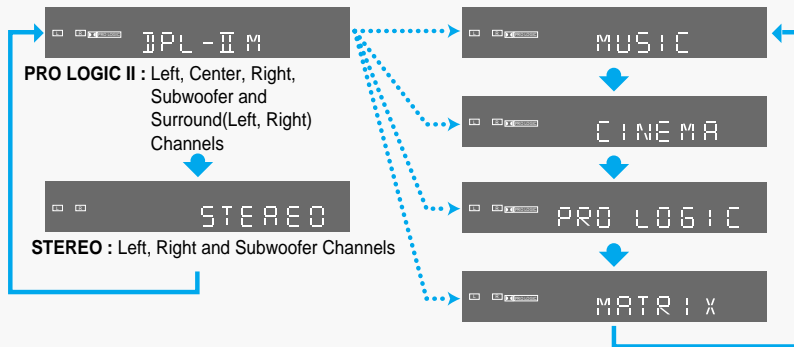• Select from FM, AM, DVD and AUX 1, AUX 2.

2

Press the **Pro Logic II** button.

3

Press the DSP/DPL II **Mode** button.

• Each time the **Pro Logic II** button is pressed.

• Each time the DSP/DPL II **Mode** button is pressed.

DPL-ⅡM

PRO LOGIC II : Left, Center, Right, Subwoofer and Surround(Left, Right) Channels

STEREO

STEREO : Left, Right and Subwoofer Channels

MUSIC

CINEMA

PRO LOGIC

MATRIX

Pro Logic II Mode
• The Music mode is recommended when listening to CDs or watching DVDs with mostly musical content.
• The Cinema mode is best when watching movies.
• The Pro Logic mode offers the same surround processing as original Pro Logic and is best used when the source contents are not of optimum quality.
• The Matrix mode is useful for when the audio is mono.

Select one of the modes ("Music", "Cinema", "Pro Logic" or "MATRIX").

Effect

Dolby Pro Logic II Effect Function

This function works only in the DPL II M (Dolby Pro Logic II Music) Mode.
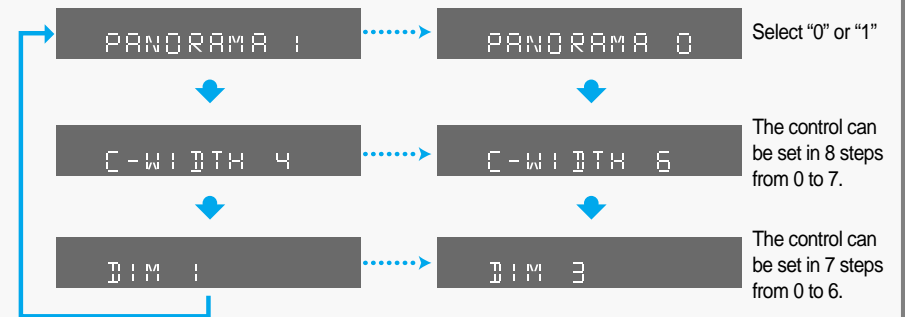
1

Press the DSP/DPL II **Effect** button.

2

Use the **Left/Right** (◄ / ►) button to make adjustments.

• Each time the DSP/DPL II **Effect** button is pressed.

PANORAMA 1 ┈┈► **PANORAMA 0**

Select "0" or "1"

C-WIDTH 4 ┈┈► **C-WIDTH 6**

The control can be set in 8 steps from 0 to 7.

DIM 1 ┈┈► **DIM 3**

The control can be set in 7 steps from 0 to 6.

• **Panorama Mode**
  This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.
• **Center Width Control**
  This control adjusts the center image so it may be heard only from the center speaker; only from the left/right speakers as a phantom image; or from all three front speakers to varying degrees.
• **Dimension Control**
  This control gradually adjusts the soundfield either towards the front or towards the rear.

Note
• When playing a DVD encoded in two or more channels, DOLBY PRO LOGIC II mode cannot be selected.

DSP(Digital Signal Processor) Modes

DSP modes have been designed to simulate different acoustic environments.
The sound heard in a hall, theater, pavilion, dance club, or live club consists of direct and indirect sound —early reflections and reflections from behind.
Direct sounds reach the listener directly without any reflection.
Indirect sounds are delayed by the distance of the ceiling and walls.
These indirect sounds are an important element of the acoustic surround effect.
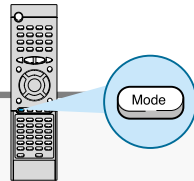
Mode

Press the DSP/DPLⅡ Mode button.

• The following DSP modes are provided with this unit:

HALL : Provides a clear vocal and simulates the feeling of a concert hall.

THEATER : Simulates the feeling of a theater.

PAVILION : Simulates the spacious feeling of a pavilion with a high ceiling.

DANCE CLUB : Simulates the sound of a dance club with a throbbing bass beat.

**LIVE CLUB :** Simulates the feeling of a live music club with a low ceiling.

• These DSP modes can be used to add acoustic surround effects while reproducing stereo analog or linear PCM digital signals.
• When one of the DSP modes is selected,the DSP indicator lights up on the display.

DSP modes available according to the input signal format

O : Possible, X : Not possible

Surround	Multichannel Surround	DSP					(canceled)
		HALL	THEATER	PAVILION	DANCE CLUB	LIVE CLUB	STEREO
Analog	X	O	O	O	O	O	O
Linear PCM	X	O	O	O	O	O	O
Dolby Digital	O	X	X	X	X	X	X
DTS	O	X	X	X	X	X	X

(Input Signal format)

Sleep Function
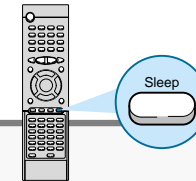
Sleep

To set up Sleep

Press the Sleep button.

• Each time the button is pressed the selection toggles as follows: SLEEP 10 ➔ SLEEP 20 ➔ SLEEP 30 ➔ SLEEP 60 ➔ SLEEP 90 ➔ SLEEP 120 ➔ SLEEP 150 ➔ OFF.

To Review Sleep Setting

• The remaining time for the selected Sleep time is displayed.
• Pressing the button once again changes the Sleep time from the last setting.

What is the Sleep function?

You can set the sleep time so that the unit powers off automatically after a preset period of time.

Listening on headphones

Use headphones (not supplied) for private listening pleasure.

Connect the headphones to the HEADPHONES jack of the front panel.

• No sound is produced from the speakers.
• To prevent hearing damage, do not raise the volume level excessively when using headphones.
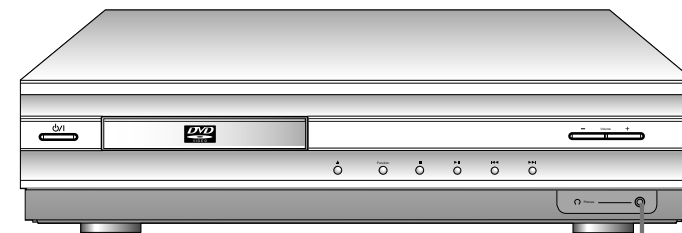
HEADPHONE jack

Listening to the Radio

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

Remote Control Unit

1
Press the **Tuner(Band)** button.

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

2
Select a broadcast station.

Auto Station 1	When the	◄◄ ►►	button is pressed, a preset broadcast station is selected.
Auto Station 2	Hold in the ◄◄ ►► button. Automatic searching begins, and then stops when a station is tuned in.
Manual Station	Press the ◄◄ ►► button to tune to the chosen station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

Main Unit

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

2
Select a broadcast station.

Auto Station 1	Press the **Stop** (■) button to select the PRESET mode. Then press the	◄◄ ►►	button to select a station stored in the preset. See the instructions on the next page to preset stations.
Auto Station 2	Press the **Stop** (■) button to select the MANUAL mode on the front panel. Then hold in the	◄◄ ►►	button to make the unit begin automatically searching for broadcast stations.
Manual Station	Press the **Stop** (■) button to select the MANUAL mode on the front panel. Press the	◄◄ ►►	button to tune to the desired station. The frequency changes incrementally in either direction each time the corresponding button is pressed.

To Listen in Mono/Stereo • • • • Audio MO/ST

Press the MO/ST button. (FM only)

- The selection toggles back and forth between "STEREO" and "MONO" each time the **MO/ST** button is pressed.
- In a poor reception areas, select Mono mode for a clear, interference-free broadcast.

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Presetting stations

You can store up to:
- ♦ 15 FM stations
- ♦ 15 AM stations

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

Example: Presetting FM 89.1 in the memory

1
Press the **Tuner(Band)** button and select the FM band.

2
Select MANUAL by pressing the **Stop** (■) button on the main unit.

3
Use the ◄◄ and ►► button to tune to 89.1

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

FM 1 0 1.2 1 MHz

MANUAL

FM 89.1 0 MHz

4
Press the **Program** button on the remote control, FM1 will flash. If you want to save 89.1 to FM1, press Program again.

5
If you want to save 89.1 to another preset location(FM2~FM15), press |◄◄ or ►►|, then press **Program** to save it to that location.
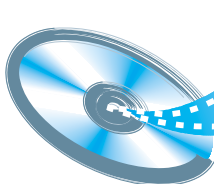
6
To preset other stations, follow steps 1~4 again.

FM1 PROGRAM 89.1 0 MHz

FM2 PROGRAM 89.1 0 MHz

FM 89.1 0 MHz

To store other Channels

Follow steps 3~5 again.

To tune in a preset station

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Troubleshooting

Problem	Check
The disc tray does not open.	• Is the disc installed with the label side facing up? • Is the power cord plugged securely into the power outlet? • Turn off the power to the unit by pressing the **Power** (⏻/❙) button and turn it back on.
Disc does not play.	• Check the region number of the DVD. • DVD discs purchased abroad may not be playable. • This player cannot play CD-ROMs, DVD-ROMs, etc. • Check the rating level of the DVD.
Playback does not start immediately when the Play/Pause button is pressed.	• Check whether the disc has any scratch marks or is deformed.
No sound is produced.	• No sound is heard during high-speed playback, slow playback, and step motion playback modes. • Are the speakers properly connected? Is the speaker Setup correctly customized? • Is the disc severely damaged? The disc may be dirty. Wipe off fingerprints or dirt.
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 only (L/R). Select the "PRO LOGIC" option by pressing the Pro Logic button on the remote control unit to use all six speakers. • Check whether your DVD disc is 5.1 CH compatible.
Picture does not appear; sound is not produced; the disc tray opens 2-5 seconds later.	• Was the player moved suddenly 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 after the condensation disappears.)
Sound quality is irregular.	• Are the speaker cables loose? • Is there any dirt or debris at the end of the speaker connector?
Dolby Digital 5.1 Channel Surround Sound is not being reproduced.	• Does the disc being played show the "Dolby Digital 5.1CH" mark ? 5.1-channel sound is reproduced only if the disc is recorded with 5.1 channel sound. • Is the DVD player connected to the proper speakers?

Problem	Check
• The disc revolves but no picture appears. **• Picture shows interference and quality is poor.**	• Is the TV power turned on? • Are the video cables properly connected? • Is it the player in PAUSE mode? • Is there any dirt on the disc, or is the disc damaged? • It may not be possible to play some DVD discs due to poor manufacture. • When a dark scene changes to a bright scene during playback, the screen may flicker vertically. Some disturbance is normal.
Remote control unit does not operate.	• Is the remote control being used within the appropriate distance and angle of operation for the unit? • Are there any obstacles between the remote control unit and the remote control sensor? • Are the batteries dead? Is it time to replace the batteries with new ones?
Audio or subtitle language does not operate.	• The audio or subtitle language features does not operate with DVDs that do not include multiple audio or subtitle languages.
The Menu button is pressed but the Menu screen does not appear.	• Is the remote control being used within the appropriate distance and angle of operation for the unit? • Are the batteries dead? • Does the disc have a Menu?
The screen ratio cannot be changed.	• You can play 16:9 wide DVDs in 16:9 WIDE mode or 4:3 LETTER BOX mode or 4:3 PAN-SCAN mode; but 4:3 encoded DVDs only show in 4:3 ratio. Refer to the DVD disc jacket and then select the appropriate function.
The desired radio station cannot be tuned in.	• Is the antenna installed properly? • When the antenna's input signal is weak, install an external FM antenna in an area with good reception quality.
The system is malfunctioning (the system does not work or no sound).	• While the player is in the stop mode, hold the Stop (■) button down on the main unit for over 5 seconds."INITIAL" appears on the display and all settings will return to the Factory Preset condition. **The RESET function erases all settings; do not use this function unless necessary.**

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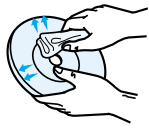
When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

• When cleaning, wipe gently from the inside to the outside of the disc.
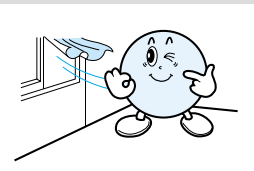
Note Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.
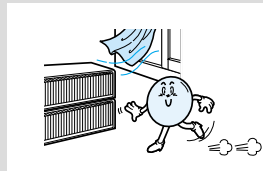
Disc Storage

Do not keep in direct sunlight
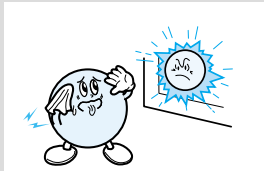
Keep in a cool ventilated area

Keep in a clean Protection jacket. Store vertically.

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

Disc Type and Protection

Usable Discs

Disc Types	Marks	Recording Types	Disc Size	Max. Playing Time
DVD	DVD VIDEO	Audio + Video	12cm	Approx. 240 min. (Single-sided)
				Approx. 480 min. (Double-sided)
			8cm	Approx. 160 min. (Single-sided)
				Approx. 160 min. (Double-sided)
VIDEO-CD	COMPACT disc DIGITAL VIDEO	Audio + Video	12cm	74 min.
			8cm	20 min.
AUDIO-CD	COMPACT disc DIGITAL AUDIO	Audio	12cm	74 min.
			8cm	20 min.

DOLBY DIGITAL	DIGITAL dts SURROUND	DIGITAL SOUND	STEREO	NTSC	MP3 DISC PLAYBACK
Dolby Digital disc	DTS Disc	Digital Audio disc	Stereo disc	NTSC broadcast system in USA, Canada, Japan, South Korea, etc..	MP3 disc

Specifications

GENERAL	Power Consumption	160W
	Weight	9.1Kg
	Dimensions	430(W) x 100(H) x 370(D) 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 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:0.70Vp-p(75Ω load)
		Pb:0.70Vp-p(75Ω load)
	S-VIDEO	Luminance Signal: 1.0Vp-p(75Ω load)
		Color Signal: 0.286Vp-p(75Ω load)
AMPLIFIER	Front speaker output	50W x 2(6Ω)
	Center speaker output	50W(6Ω)
	Rear speaker output	50W x 2(6Ω)
	Subwoofer speaker output	100W(3Ω)
	Frequency range	20Hz~25KHz
	S/N Ratio	75dB
	Channel separation	50dB
	Input sensitivity	(AUX)500mV

		5.1ch speaker system	
SPEAKER	Speaker system	Front/Center/Rear speaker	Subwoofer speaker
	Impedance	6Ω x 5	3Ω
	Frequency range	150Hz~18KHz	45Hz~200Hz
	Output sound pressure level	87dB/W/M	86dB/W/M
	Rated input	50W	100W
	Maximum input	100W	200W
	Dimensions	Front/Rear 138mm x 202mm x 140mm	250mm x 403mm x 335mm
		Center 370mm x 140mm x 140mm	
	Weights	Front/Rear 1.6Kg	6.8Kg
		Center 2.2Kg	

SAMSUNG ELECTRONICS

Samsung Limited Warranty

Samsung Electronics Canada Inc. (SECA), warrants that this product is free from defective material and workmanship.

SECA further warrants that if this product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material SECA will repair or replace the product at its option.

All warranty repairs must be performed by a SECA authorized service centre. (The name and address of the location nearest you can be obtained by calling toll free **1-800-268-1620** or visiting our web site at **www.samsungcanada.com)**

Labour	**Parts**
one (1) year (carry-in)	**one (1) year**

On carry-in models, transportation to and from the service centre is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase. It must be presented to the authorized service centre at the time service is requested.

Exclusions

This warranty does not cover damage due to accident, fire flood and/or other acts of God; misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage that occurs in shipping. Exterior and interior finish, lamps and glass are not covered under this warranty. Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty.
This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased and used in Canada.

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