SAMSUNG

DVD Player

DVD-HD950

SAMSUNG

ELECTRONICS

DVD

AUDIO/VIDEO

Precautions

1. Setting up

- Refer to the identification label located on the rear of your player for its proper operating voltage.
- Install your player in a cabinet with adequate ventilation holes. (7~10cm) Do not block ventilation holes on any of the components for air circulation.
- Do not push the disc tray in by hand.
- Do not stack components.
- Be sure to turn all components off before moving the player.
- Before connecting other components to this player, be sure to turn them off.
- Be sure to remove the disc and turn off the player after use, especially if you don't use it for a long time.
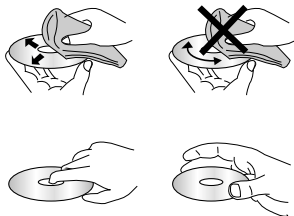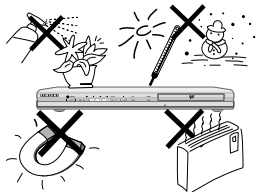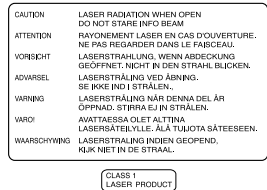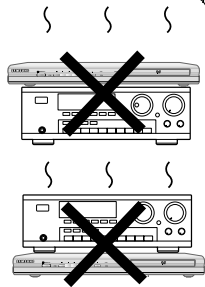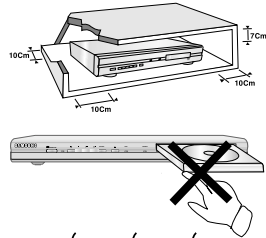
2. For your safety

- This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not open covers and do not repair yourself. Refer servicing to qualified personal.

3. Caution

- Your player is not intended for industrial use but for domestic purposes. Use of this product is for personal use only.
- Do not put any container filled with liquid or any small metal objects on the player.
- Exterior influences such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- When condensation forms inside the player due to sharp changes in temperature, the player may not operate correctly. If this occurs, leave the player at room temperature until the inside of the player becomes dry and operational.
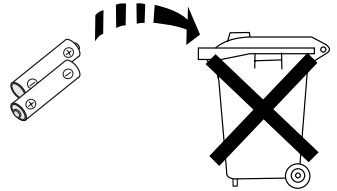
4. Disc

- Do not clean record-cleaning sprays, benzene, thinner, or other volatile solvents that may cause damage to the disc surface.
- Do not touch the disc's signal surface. Hold by the edges or by one edge and the hole in the center.
- Wipe the dirt away gently; never wipe a cloth back and forth over the disc.

CAUTION	LASER RADIATION WHEN OPEN DO NOT STARE INFO BEAM
ATTENTION	RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
VORSICHT	LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICKEN.
ADVARSEL	LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN.
VARNING	LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN STRÅLEN.
VARO!	AVATTAESSA OLET ALTTINA LASERSÄTEILYLLE. ÄLÄ TULIIOTA SÄTEESEEN.
WAARSCHWING	LASERSTRALING INDIEN GEOPEND. KIJK NIET IN DE STRAAL.

CLASS 1
LASER PRODUCT

5. Environmental info

- The battery used in this product contains chemicals that are harmful to the environment.
- So, dispose of batteries in the proper manner, according to federal, state, and local regulations.
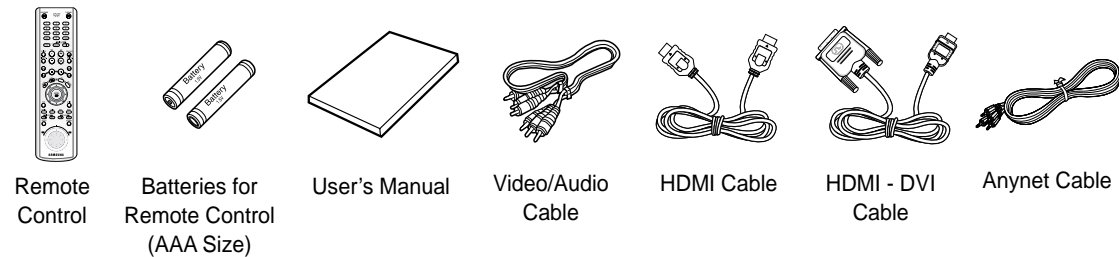
The product unit accompanying this user manual is licensed under certain intellectual property rights of certain third parties. This license is limited to private non-commercial use by end-user consumers for licensed contents. No rights are granted for commercial use. The license does not cover any product unit other than this product unit and the license does not extend to any unlicensed product unit or process conforming to ISO/OUR 11172-3 or ISO/OUR 13818-3 used or sold in combination with this product unit. The license only covers the use of this product unit to encode and/or decode audio files conforming to the ISO/OUR 11172-3 or ISO/OUR 13818-3. No rights are granted under this license for product features or functions that do not conform to the ISO/OUR 11172-3 or ISO/OUR 13818-3.

CAUTION: USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
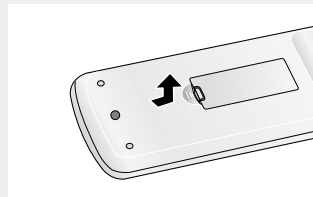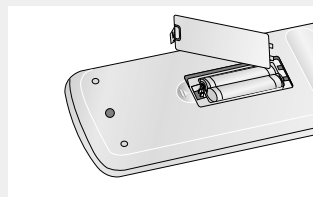
Before you start

Accessories

Remote Control | Batteries for Remote Control (AAA Size) | User's Manual | Video/Audio Cable | HDMI Cable | HDMI - DVI Cable | Anynet Cable
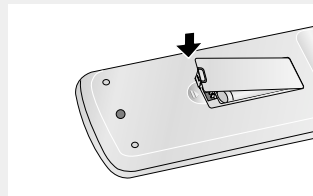
Install Batteries in the Remote control

1

Open the battery cover on the back of the remote control.

2

Insert two AAA batteries. Make sure that the polarities (+ and -) are aligned correctly.

3

Replace the battery cover.

If the remote control doesn't operate properly:

- Check the polarity + - of the batteries (Dry-Cell).

- Check if the batteries are drained.

- Check if remote control sensor is blocked by obstacles.

- Check if there is any fluorescent lighting nearby.

Chapter 1

SETUP

General Features

Excellent Sound
Dolby Digital, a technology developed by Dolby Laboratories, provides crystal clear sound reproduction.

Screen
Both regular and widescreen(16:9) pictures can be viewed.

Slow Motion
An important scene can be viewed in slow motion.

Program Play (CD)
You can program tracks to play in desired order.

Parental Control (DVD)
The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc.

Various On-Screen Menu Functions
You can select various languages (Audio/Subtitle) and screen angles while enjoying movies.

Progressive Scan
Progressive scanning creates an improved picture with double the scan lines of a conventional interlaced picture.

EZ VIEW (DVD)
Easy View enables picture adjustment to match your TV's screen size (16:9 or 4:3).

Digital Photo Viewer (JPEG)
You can view Digital Photos on your TV.

Repeat
You can repeat a song or movie simply by pressing the REPEAT button.

MP3/WMA
This unit can play discs created from MP3/WMA files.

Instant Replay (DVD)
This function is used to replay the previous 10 seconds of a movie from the current position.

Instant Skip (DVD)
This function skips playback ahead 10 seconds.

Super Audio CD
Super Audio CD is a high quality audio format with higher sampling rates and fuller, richer sound as compared to regular CD.

MPEG4
This unit can play MPEG4 formats within an avi file.

DVD AUDIO
DVD AUDIO is a format specifically designed to provide the highest possible audio fidelity capable on DVD.

HDMI (High Definition Multimedia Interface)
HDMI reduces picture noise by allowing a pure digital video/audio signal path from the player to your TV.

Note
- Discs which cannot be played with this player.
  - DVD-ROM
  - CD-ROM
  - CDI
  - DVD-RAM
  - CDV
  - CVD
  - CDGs play audio only, not graphics.
- Ability to play back may depend on recording conditions.
  - DVD-R, +RW
  - CD-RW
  - DVD+RW, -RW (V mode)
- The unit may not play certain CD-R, CD-RW and DVD-R due to the disc type or recording conditions.

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.

PROGRESSIVE SCAN OUTPUTS (525p/625p)

"CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE, IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING YOUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT SAMSUNG'S CUSTOMER SERVICE CENTER."

Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD-VIDEO	Audio + Video	12 Cm	Single-sided 240 min. Double-sided 480 min.	- DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system.
		8 Cm	Single-sided 80 min. Double-sided 160 min.	- Various screen and audio functions can be easily selected through the on-screen menu.
VIDEO-CD	Audio + Video	12 Cm	74 min.	- Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 Cm	20 min.	
AUDIO-CD	Audio	12 Cm	74 min.	- CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 Cm	20 min.	
DVD-AUDIO	Audio + Video	12 Cm	400 min.	- DVD AUDIO is a format specifically designed to provide the highest possible audio fidelity capable on DVD.
Super Audio CD	Audio	12 Cm	74 min.	- Super Audio CD is a high quality audio format with higher sampling rates and fuller, richer sound as compared to regular CD.

Disc Markings

	Play Region Number
PAL	PAL broadcast system in U.K, France, Germany, etc.
Dolby Digital	Dolby Digital disc
STEREO	Stereo disc
DIGITAL SOUND	Digital Audio disc
dts	DTS disc
MP3	MP3 disc
DVD AUDIO	DVD AUDIO disc
SUPER AUDIO CD	Super Audio CD disc

You must only insert one DVD disc at a time. Inserting two or more discs will not allow playback and may cause damage to the DVD player.

Region Number

Both the DVD player 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 described on the rear panel of the player.

DivX Certication

DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc and are used under license.

Description

Front Panel Controls

1. **STANDBY/ON (⏻/I)**
   When the unit is first plugged in, the indicator lights.
   When STANDBY/ON is pressed on, the indicator goes out and the player is turned on.

2. **DISC TRAY**
   Place the disc here.

3. **OPEN/CLOSE (⏏)**
   Press to open and close the disc tray.

4. **DISPLAY**
   Operation indicators are displayed here.

5. **EZ VIEW**
   The aspect ratio of a picture can easily be adjusted to your TV's screen size (16:9 or 4:3).

6. **STOP (■)**
   Stops disc play.

7. **REMOTE CONTROL RECEIVER**

8. **SKIP (▶▶|) / SEARCH**
   Use to forward skip a scene or music.

9. **SKIP (|◀◀) / SEARCH**
   Use to reverse skip a scene or music.

10. **PLAY/PAUSE (▶||)**
    Begin or pause disc play.

Front Panel Display

1. **DVD : DVD is loaded**
   Audio : DVD-Audio disc is playing

2. **Super Audio CD is loaded**

3. **DTS (Digital Theater System) output**

4. **Dolby-Digital Disc**

5. **Progressive Scan Video output**

6. **DVD-Audio : Group number**

7. **DVD-Video : Title number**

8. **DVD-Audio, CD, Video CD, Super Audio CD : Track number**

9. **DVD-Video : Chapter number**

10. **DVD-Audio : Index number**

11. **Disc type indicators : SVCD (Super VCD), VCD, CD**

12. **MPEG Audio output**

13. **CVD (Chinese VCD) Disc indicator**

14. **MP3 Audio output**

15. **Linear PCM audio output**

16. **Lights when the device connected to the HDMI Jack is a DVI device**

17. **Lights when the device connected to the HDMI Jack is a HDMI device**

18. **Displays various messages concerning operations such as PLAY, STOP, LOAD ...**
    no DISC : No disc loaded.
    OPEN : The disc tray is open.
    LOAD : Player is loading disc information.

Rear Panel

1. ANYNET JACKS
- Use the Anynet cable to connect the Anynet jack of your television or AV device.

2. 5.1CH ANALOG AUDIO OUT JACKS
- Connect to an amplifier with 5.1ch analog input jacks.

3. DIGITAL AUDIO OUT JACKS
- Use either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver.
- Use either an optical or coaxial digital cable to connect to an A/V Amplifier that contains a Dolby Digital, MPEG2 or DTS decoder.

4. AUDIO OUT JACKS
Connect to the Audio input jacks of your television or audio/video receiver.

5. VIDEO OUT JACK
- Use a video cable to connect to the Video input jack on your television.
- The Video Output in Setup Menu must be set to COMPONENT(I-SCAN) or COMPOSITE/S-VIDEO.

6. S-VIDEO OUT JACK
- Use the S-Video cable to connect this jack to the S-Video jack on your television for higher picture quality.
- The Video Output in Setup Menu must be set to COMPOSITE/S-VIDEO.

7. HDMI OUT JACK
- Use the HDMI cable to connect this jack to the HDMI jack on your television for the best quality picture.
- If an HDMI cable is connected to an HDMI-compatible TV, HDMI will be output automatically a maximum of 10 seconds later.
- If you want to use a Video, S-Video or Component Output, unplug HDMI cable.

8. COMPONENT VIDEO OUT JACKS
- Use these jacks if you have a TV with Component Video in jacks. These jacks provide P_R, P_B and Y video.
- If HDMI/COMPONENT(P-SCAN) Video Output is selected in Setup Menu, progressive scan mode will work.
- If COMPONENT(I-SCAN) Video Output is selected in Setup Menu, interlaced scan mode will work.

Note

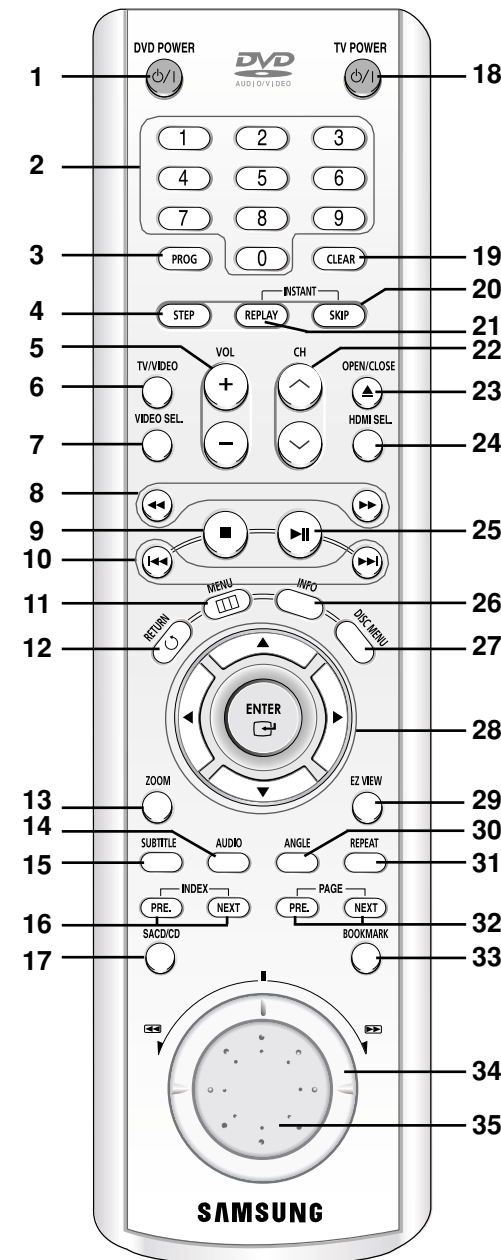- Consult your TV User's Manual to find out if your TV supports Progressive Scan (P-SCAN). If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.
- If HDMI/COMPONENT(P-SCAN) Video Output is selected in Setup Menu, Video and S-Video Outputs do not work.
- The HDMI output of this unit can be connected to a DVI jack on a TV or other device using a conversion adapter. In this case, it is necessary to use a TV or display with an HDCP-compatible DVI input.
- There may be no image output if the DVD player is connected to a TV or display that is not compatible with the above format.
- Refer to the TV's instruction manual for detailed information regarding the HDMI terminal.
- See pages 65 ~ 67 to get more information on how to use the setup menu.

Tour of the Remote Control

1. DVD POWER Button
Turns the power on or off.

2. NUMBER Buttons

3. PROG Button
Allows you to program a specific order.

4. STEP Button
Advances play one frame at a time.

5. VOL (+, -) Buttons
Control volume.

6. TV/VIDEO Button
Press to display all of the available video sources (i.e., TV, Cable, Video)

7. VIDEO SEL. Button
Selects Video output format.

8. SEARCH Buttons (◄◄ / ►►)
Allow you to search forward/backward through a disc.

9. STOP Button (■)

10. SKIP Buttons (I◄◄ / ►►I)
Use to skip the title, chapter or track.

11. MENU Button
Brings up the DVD player's menu.

12. RETURN Button
Returns to a previous menu.

13. ZOOM Button
Enlarges DVD picture.

14. AUDIO Button
Use this button to access various audio functions on a disc.

15. SUBTITLE Button

16. INDEX Buttons
Use to skip the INDEX.

17. SACD/CD Button
Selects Super Audio CD or CD playback mode.

18. TV POWER Button
Turns the TV's power on or off.

19. CLEAR Button
Use to remove menus or status displays from the screen.

20. INSTANT SKIP Button
This function skips playback ahead 10 seconds.

21. INSTANT REPLAY Button
This function is used to replay the previous 10 seconds of a movie from the current position.

22. CH (∧, ∨) Buttons
Channel selection.

23. OPEN/CLOSE (▲) Button
To open and close the disc tray.

24. HDMI SEL. Button
HDMI or DVI Output resolution setup.

25. PLAY/PAUSE Button (►II)
Begin/Pause disc play.

26. INFO Button
Displays the current disc mode.

27. DISC MENU Button
Brings up the Disc menu.

28. ENTER/ œ Buttons
This button functions as a toggle switch.

29. EZ VIEW Button
The aspect ratio of a picture can easily be adjusted according to the screen size of your TV (16:9 or 4:3).

30. ANGLE Button
Use to access various camera angles on a DVD.

31. REPEAT Button
Allows you to repeat play a title, chapter, track, or disc.

32. PAGE Buttons
Use to skip the PAGE.

33. BOOKMARK Button

34. SHUTTLE DIAL (Search mode)
Performs fast motion play.

35. JOG DIAL (Step mode)
Operates frame by frame play. In CD mode, performs track search.

Chapter 2

CONNECTIONS

Choosing a Connection

The following shows examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connecting the DVD Player
- Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.
- Refer to the user's manual of the additional components (such as a TV) you are connecting for more information on those particular components.

Connection to a TV (Video)

1

Using video/audio cables, connect the **VIDEO (yellow)**/**AUDIO (red and white) OUT** terminals on the rear of the DVD player to the **VIDEO (yellow)**/**AUDIO (red and white) IN** terminals of your TV.

2

Turn on the DVD player and TV.

3

Press the input selector on your TV remote control until the Video signal from the DVD player appears on the TV screen.

Note

- **Noise may be generated if the audio cable placed too close to the power cable.**

- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 19 to 21)
- The number and position of terminals may vary depending on your TV set. Please refer to the user's manual of your TV.
- If there is one audio input terminal on the TV, connect it to the [AUDIO OUT][left] (white) terminal of the DVD player.
- If you press the VIDEO SEL. button when DVD Player is in stop mode or no disc is inserted, the Video Output mode changes in the following sequence: (COMPOSITE/S-VIDEO → COMPONENT (I-SCAN) → HDMI/COMPONENT(P-SCAN))
- When the Video Output in Setup menu is set to HDMI/COMPONENT(P-SCAN), the Video and S-Video Outputs do not work.

Connection to a TV (S-Video)

- Connecting to your TV using an S-Video cable.

- You will enjoy high quality images. S-Video separates the picture element into black and white(Y) and color(C) signals to present clearer images than regular video input mode. (Audio signals are delivered through the audio output.)

1

Using an S-Video cable (not included), connect the **S-VIDEO OUT** terminal on the rear of the DVD player to the **S-VIDEO IN** terminal of your TV.

2

Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the DVD player to the **AUDIO (red and white) IN** terminals of your TV.
Turn on the DVD player and TV.

3

Press the input selector on your TV remote control until the S-Video signal from the DVD player appears on your TV screen.

4

Set the Video Output to **COMPOSITE/S-VIDEO** in the Display Setup menu. (See pages 65 to 67)
You can use the **VIDEO SEL.** button to change the Video Output mode. (See page 12)

Connections

Note

- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 19 to 21)
- The number and position of terminals may vary depending on the TV set.
  Please refer to the user's manual of your TV.

Connection to a TV (Interlace)

- Connecting to your TV using Component video cables.
- You will enjoy high quality and accurate color reproduction images. Component video separates the picture element into black and white(Y), blue(P_B), red(P_R) signals to present clear and clean images. (Audio signals are delivered through the audio output.)

1

Using component video cables (not included), connect the **COMPONENT VIDEO OUT** terminals on the rear of the DVD player to the **COMPONENT IN** terminals of your TV.

2
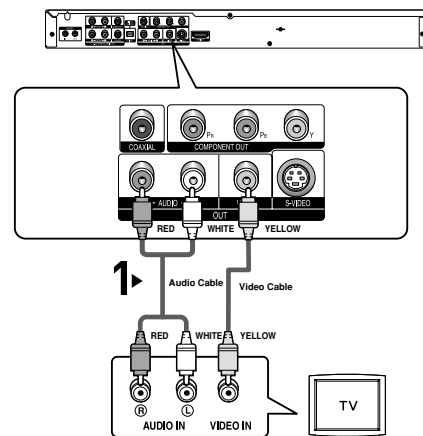
Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the DVD player to the **AUDIO (red and white) IN** terminals of your TV.
Turn on the DVD player and TV.

3

Press the input selector on your TV remote control until the Component signal from the DVD player appears on the TV screen.

4

Set the Video Output to **COMPONENT (I-SCAN)** in the Display Setup menu. (See pages 65 to 67)
You can use the **VIDEO SEL.** button to change the Video Output mode. (See page 12)

Note

- **If Video output is incorrectly set to COMPOSITE/S-VIDEO with the Component cables connected, the screen will turn red.**
- If you want to connect to an Amplifier, please refer to the Amplifier connection page. (See pages 19 to 21)
- The component terminal of your TV may be marked "R-Y, B-Y, Y" or "Cr, Cb, Y" instead of "P_R, P_B, Y" depending on the manufacturer. The number and position of terminals may vary depending on the TV set. Please refer to the user's manual of your TV.

Connection to a TV (Progressive)

1

Using component video cables (not included), connect the **COMPONENT VIDEO OUT** terminals on the rear of the DVD player to the **COMPONENT IN** terminals of your TV.
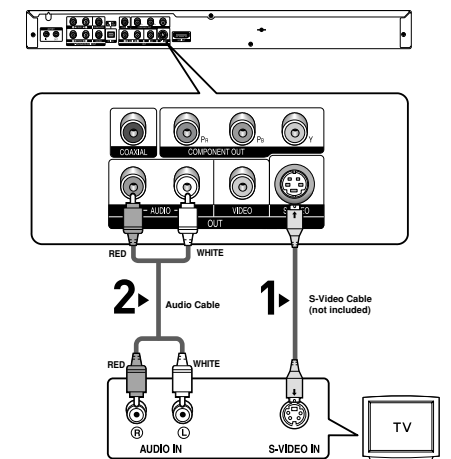
2

Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the DVD player to the **AUDIO (red and white) IN** terminals of your TV.
Turn on the DVD player and TV.

3

Press the input selector on your TV remote control until the Component signal from the DVD player appears on the TV screen.

4

Set the Video Output to **HDMI/COMPONENT (P-SCAN)** in the Display Setup menu. (See pages 65 to 67)
You can use the **VIDEO SEL.** button to change the Video Output mode. (See page 12)

To see the progressive video output,

- **Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.**
- **Depending on your TV, the connection method may differ from the illustration above.**

Note

- What is "Progressive Scan"?
  Progressive scan has twice as many scanning lines as the interlace output method.
  Progressive scanning method provides better and clearer picture quality.

Connections

Connecting to a TV with DVI Jack

1

Using the HDMI-DVI cable, connect the **HDMI OUT** terminal on the rear of the DVD player to the **DVI IN** terminal of your TV.
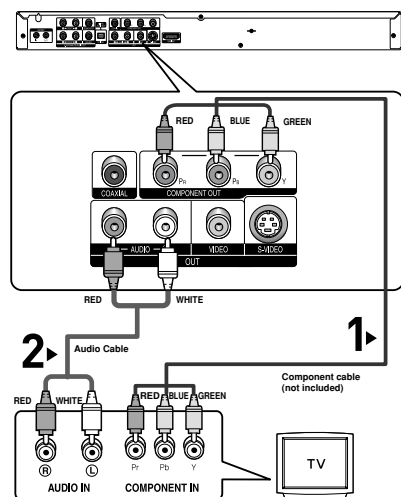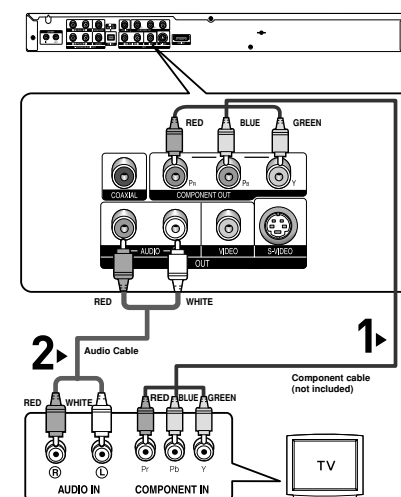
2

Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the DVD player to the **AUDIO (red and white) IN** terminals of your TV.
Turn on the DVD player and TV.

3

Press the input selector on your TV remote control until the DVI signal from the DVD player appears on your TV screen.

Connecting to a TV with HDMI Jack

1

Using the HDMI cable connect the **HDMI OUT** terminal on the rear of the DVD player to the **HDMI IN** terminal of your TV.

2

Press the input selector on your TV remote control until the HDMI signal from the DVD player appears on your TV screen.

HDMI VIDEO Specifications

When you press the **HDMI SEL.** button, 480p/576p, 720p, 768p and 1080i are selected in order.
The first press of the **HDMI SEL.** button brings up the current resolution.
The second press allows you to change the HDMI output resolution.

- Depending on your TV, certain HDMI output resolutions may not work.

- Please refer to the user's manual of your TV.

- If HDMI or HDMI-DVI cable is plugged into TV, the DVD player's output is set to HDMI/DVI within 10 seconds.

- If you set the HDMI output resolution 720p or 1080i, HDMI output provides better picture quality.

• **HDMI (High Definition Multimedia Interface)**

HDMI is an interface to enable the digital transmission of video and audio data with just a single connector. Using HDMI, the DVD player transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.

• **HDMI connection description**

HDMI connector - Both uncompressed video data and digital audio data (LPCM or Bit Stream data).

- Though the player uses a HDMI cable, the player outputs only a pure digital signal to the TV.

- If TV does not support HDCP (High-bandwidth Digital content protection), snow noise appears on the screen.

• **Why does Samsung use HDMI?**

Analog TVs require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD player) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the player to your TV.

• **What is the HDCP?**

HDCP (High-bandwidth Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD, etc.) and a display device (TV, Projector, etc.). Content is encrypted at the source device to prevent unauthorized copies from being made.

Connections

Connection to a TV with Anynet Jack

What is Anynet?

- The function enables a user to control all AV devices through the menu display on the TV screen just using one single TV remote control.
- This function works only for models supporting the Anynet.
- Using Anynet, you can easily control a DVD Player with your TV.
- For detailed operation steps and connections, refer to the user's manual that supports Anynet.
- Please note that you need to set the Anynet on the TV to use the Anynet function.

1

Using an Anynet cable, connect the **Anynet Input (Green)** terminal on the rear side of the DVD player to **Anynet Output (Balck)** terminal of the TV.

2

Using an Anynet cable, connect the **Anynet Output (Black)** terminal to **Anynet Input (Green)** terminal of other AV device.

3

Setup the Anynet function on the TV supporting Anynet, and enjoy the Anynet feature.

Note

- Anynet operation is only available for TV sets that support Anynet.
- If Component (Progressive) or S-Video connection was used, some features of Anynet will not be available. Use Video/Audio cable for the connection.
- Anynet function will not operate when Input and Output terminals are connected wrongly, because the TV cannot communicate with external devices.
- Anynet terminals are consisted of Input (Green) and Output (Black) terminals.
- Match the color-coded cables to terminals when you connect the Anynet cable.

Connections

Connection to an Audio System (2 Channel Amplifier)

1

Using the audio cables, connect the **AUDIO (red and white) OUT** terminals on the rear of the DVD player to the **AUDIO (red and white) IN** terminals of the Amplifier.

2

Using the video signal cable(s), connect the **VIDEO, S-VIDEO**, **COMPONENT** or **HDMI OUT** terminals on the rear of the DVD player to the **VIDEO, S-VIDEO**, **COMPONENT**, **HDMI** or **DVI IN** terminal of your TV as described on pages 12 to 16.

3

Turn on the DVD player, TV, and Amplifier.

4

Press the input select button of the Amplifier to select **external input** in order to hear sound from the DVD player.
Refer to your Amplifier's user manual to set the Amplifier's audio input.

Note

- **Please turn the volume down when you turn on the Amplifier.**
  Sudden loud sound may cause damage to the speakers and your ears.
- Please set the audio in the menu screen according to the Amplifier. (See pages 61 to 62)
- The position of terminals may vary depending on the Amplifier.
  Please refer to the user's manual of the Amplifier.

Connection to an Audio System (Dolby digital, MPEG2 or DTS Amplifier)

1

If using an optical cable (not included), connect the **DIGITAL AUDIO OUT (OPTICAL)** terminal on the rear of the DVD player to the **DIGITAL AUDIO IN (OPTICAL)** terminal of the Amplifier. If using a coaxial cable (not included), connect the **DIGITAL AUDIO OUT (COAXIAL)** terminal on the rear of the DVD player to the **DIGITAL AUDIO IN (COAXIAL)** terminal of the Amplifier.

2

Using the video signal cable(s), connect the **VIDEO, S-VIDEO, COMPONENT** or **HDMI OUT** terminals on the rear of the DVD player to the **VIDEO, S-VIDEO, COMPONENT, HDMI** or **DVI IN** terminals of your TV as described on pages 12 to 16.

3

Turn on the DVD player, TV, and Amplifier.

4

Press the input select button of the Amplifier to select **external input** in order to hear sound from the DVD player.
Refer to your Amplifier's user manual to set the Amplifier's audio input.

Note

- **Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.**

- Please set the audio in the menu screen according to the Amplifier. (See pages 61 to 62)

- The position of terminals may vary depending on the Amplifier.
  Please refer to the user's manual of the Amplifier.

- Please remove the dust cover before using the optical cable (not included) and put the cover on the cable again when it's not used.

- DVD-AUDIO only plays back two channel audio through the Digital Audio out.
  Multi-channel DVD-Audio discs are output through the Analog outputs.

- SACD plays back only through the Analog outputs. (See pages 61 to 62)

Connection to a 5.1CH Analog Amplifier

1

If using audio cables for 5.1 CH Analog Amplifier (not included) connect the **5.1CH ANALOG AUDIO OUT** terminals on the rear of the DVD player to the **5.1CH ANALOG AUDIO IN** terminals of the 5.1CH Analog Amplifier.
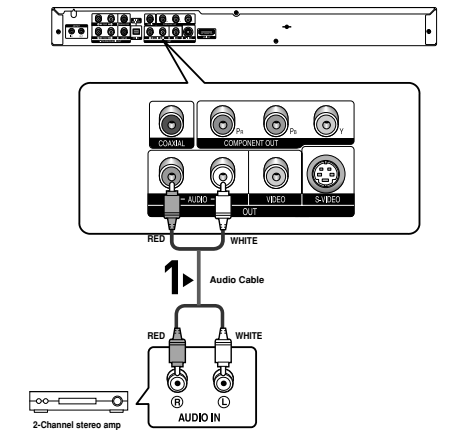
2

Using the video signal cable(s), connect the **VIDEO, S-VIDEO, COMPONENT** or **HDMI OUT** terminals on the rear of the DVD player to the **VIDEO, S-VIDEO, COMPONENT, HDMI** or **DVI IN** terminals of your TV as described on pages 12 to 16.

3

Turn on the DVD player, TV, and Amplifier.

4

Press the input select button of the Amplifier to select **external input** in order to hear sound from the DVD player.
Refer to your Amplifier's user manual to set the Amplifier's audio input.

Connections

Note

- **Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.**

- Please set the audio in the menu screen according to the Amplifier. (See pages 61 to 62)

- The position of terminals may vary depending on the Amplifier.
  Please refer to the user's manual of the Amplifier.

Playing a Disc

Before Play
- Turn on your TV and set it to the correct Video Input on the TV's remote control.
- If you connected an external Audio System, turn on your Audio System and set it to the correct Audio Input.

After plugging in the player, the first time you press the **DVD POWER** button, this screen comes up: If you want to select a language, press a **NUMBER** button. (This screen will only appear when you plug in the player for the first time.) If the language for the startup screen is not set, the settings may change whenever you turn the power on or off. Therefore, make sure that you select the language you want to use. Once you select a menu language, you can change it by pressing the ▶▶ button on the front panel of the unit for more than 5 seconds with no disc in the unit. Then the **SELECT MENU LANGUAGE** window appears again where you can reset your preferred language.

```
SELECT MENU LANGUAGE

Press     1   for English
Touche    2   pour Français
Drücken Sie 3  für Deutsch
Pulsar    4   para Español
กด        5   สำหรับภาษาไทย
```

Playback

1
Press the **OPEN/CLOSE** (▲) button.
The STANDBY indicator light goes out and the tray opens.

2
Place a disc gently into the tray with the disc's label facing up.

3
Press the **PLAY/PAUSE** (▶II) button or **OPEN/CLOSE** (▲) button to close the disc tray.

◄ **RESUME function**

When you stop disc play, the player remembers where you stopped, so when you press PLAY/PAUSE (▶II) button again, it will pick up where you left off. (unless the disc is removed or the player is unplugged, or if you press the STOP (■) button twice.)

4
Stopping Play
Press the **STOP** (■) button during play.

5
Removing Disc
Press the **OPEN/CLOSE** (▲) button.

6
Pausing Play
Press the **PLAY/PAUSE** (▶II) or **STEP** button on the remote control during play.

7
Step Motion Play (Except CD)
Turn the **JOG DIAL** clockwise or press the **STEP** button on the remote control during play.

8
Slow Motion Play (Except CD)
Press the **SEARCH** (▶▶) button to choose the play speed between 1/8, 1/4 and 1/2 of normal during PAUSE or STEP mode.

Note
- If the player is left in the stop mode for more than one minute without any user interaction, a screen saver will be activated. Press the PLAY/PAUSE (▶II) button to resume normal play.
- If the player is left in the stop mode for more than 30 minutes, the power will automatically turn off. (Automatic Power-Off Function)

◄ Screen stops, no sound.
To resume, press the PLAY/PAUSE (▶II) button once again.

Note
If the player is left for about 5 minutes in pause mode, it will stop.

◄ Each time the button is pressed or Jog Dial is turned, a new frame will appear.
No sound is heard during STEP mode.
Press the PLAY/PAUSE (▶II) button to resume normal play.
You can only perform step motion play in the forward direction.

◄ No sound is heard during slow mode.
Press the PLAY/PAUSE (▶II) button to resume normal play.
Reverse slow motion play will not work.

Note
This (⊘) icon indicates an invalid button press.

Basic Functions

Using the Search and Skip Functions

During play, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching through a Chapter or Track

During play, turn the **SHUTTLE DIAL** or press the **SEARCH** (◄◄ or ►►) button on the remote control for more than 1 second.

◄ During play, press the SEARCH (◄◄ or ►►) button and press again to search at a faster speed.

DVD	2X, 4X, 64X, 128X
VCD	4X, 8X
CD/SACD/DVD-AUDIO	2X, 4X, 8X

Note

- The speed marked in this function may be different from the actual playback speed.
- No sound is hearing during search mode (Except CD).

Skipping Tracks

During play, press the **SKIP** (I◄◄ or ►►I) button.

- When playing a DVD, if you press the SKIP (►►I) button, it moves to the next chapter. If you press the SKIP (I◄◄) button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a VCD 2.0 in Menu Off mode, or a VCD 1.1 or a CD, if you press the SKIP (►►I) button, it moves to the next track. If you press the SKIP (I◄◄) button, it moves to the beginning of the track. One more press makes it move to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press the ►►I button, it moves forward 5 minutes. If you press the I◄◄ button, it moves backward 5 minutes.

Note
When VCD 2.0 is in Menu Off mode only, this function works. Select Menu Off by pressing the DISC MENU button.

Using the Display Function

When Playing a DVD/VCD/CD/MPEG4

1
During play, press the **INFO** button on the remote control.

◄ You can select Info in the function menu by pressing the MENU button.

2
Press the ▲/▼ buttons to select the desired item.

DVD

DVD	
	01
	02
	0:00:13
	ENG 5.1CH
	Off
	ENTER

VCD

VCD	
	01
	0:00:43
	ENTER

◄ When VCD2.0 is in Menu Off mode only, this function works. Select Menu Off by pressing the DISC MENU buton.

CD

CD	
	01
	0:00:46
	ENTER

MPEG4

DivX	
	01
	0:00:13
	MP3 1/8
	None
	640x272
	ENTER

Basic Functions

3

Press the ◄/► buttons to make the desired setup and then press the **ENTER** button.

◄ You may use the number buttons of the remote control to directly access a title, chapter or to start the playback from a desired time.

4

To make the screen disappear, press the **INFO** button again.

Note

🔲 **Title**	To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified.
Chapter **Track**	Most DVD discs are recorded in chapters so that you can quickly find a specific passage (similar to tracks on an audio CD).
🕐 **Time**	Allows playback of the film from a desired time. You must enter the starting time as a reference. The time search function does not operate on some discs.
Audio	Refers to the film's soundtrack language. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks. The MP3, AC3 and WMA are supported. (DivX)
Subtitle	Refers to the subtitle languages available in the disc. You will be able to choose the subtitle languages or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.
Size	(DivX) File Size has a relationship with resolution of a title. The larger file size is, the higher resolution is displayed. If the file resolution is small, it scales up automatically. So you can see the larger screen.

Using the Disc and Title Menu

Using the Disc Menu (DVD)

1

During the playback of a DVD disc, press the **MENU** button on the remote control.

2

Press the ▲/▼ buttons to select **Disc Menu**, then press the ► or **ENTER** button.

Note
- Depending on a disc, the Disc Menu may not work.
- You can also use the Disc Menu, using the DISC MENU button on the remote control.
- In VCD 2.0 the DISC MENU button is used to select Menu On or Menu Off mode.

Using the Title Menu (DVD)

1

During the playback of a DVD disc, press the **MENU** button on the remote control.

2

Press the ▲/▼ buttons to select **Title Menu**, then press the ► or **ENTER** button.

Note
- Depending on a disc, the Title Menu may not work.
- Title Menu will only be displayed if there are at least two titles in the disc.

Basic Functions

Using the Function Menu

Using the Function Menu (DVD/VCD)

1

Press the **MENU** button during playback.

2

Press the ▲/▼ buttons to select **Function**, then press the ► or **ENTER** button.
- Info (See pages 25 to 26)
- Zoom (See page 39)
- Bookmark
  (See pages 37 to 38)
- Repeat (See pages 29 to 30)
- EZ View
  (See pages 32 to 33)
- Front Display
  Lights when the front display is selected ON.

Disc Menu	Info
Title Menu	Zoom
	Bookmark
Function	Repeat
	EZ View
Setup	Front Display : On

■ ENTER ■ RETURN ■ M E N U

3

Press the ▲/▼ buttons to select one of the six functions. Then press the ► or **ENTER** button to access the function.

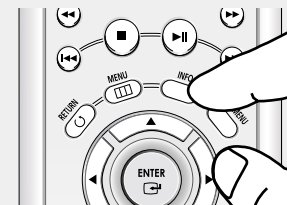◄ You can also directly select these functions using their respective buttons on the remote control.

Note
- When VCD2.0 is in Menu Off mode only, this function works. Select Menu Off by pressing the DISC MENU buton.

Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

When playing a DVD/VCD/CD

1

Press the **REPEAT** button on the remote control. Repeat screen appears.

2

Press the ◄/► buttons to select **Chapter**, **Title** or **A-B**, then press the **ENTER** button.

DVD

Off 01 01 A-B REPEAT ENTER

VCD/CD

Off 01 01 A-B REPEAT ENTER

◄ DVD repeats play by chapter or title, CD and VCD repeat play by disc or track.
Chapter ( ): repeats the chapter that is playing.
Title ( ): repeats the title that is playing.
Disc ( ): repeats the disc that is playing.
Track ( ): repeats the track that is playing.
A-B: repeats a segment of the disc that you select.

Using the A-B Repeat function

1. Press the REPEAT A-B button at the point where you want repeat play to start (A).
   B is automatically highlighted.

2. Press the REPEAT A-B button at the point where you want the repeat play to stop (B).

   - To return to normal play, press the CLEAR button.

Note

A-B REPEAT does not allow you to set point (B) until at least 5 seconds of playback time has elapsed after point (A) has been set.

3

To return to normal play, press **REPEAT** button again, then press the ◄/► buttons to select **Off** and press **ENTER** button.

DVD

Off 01 01 A-B REPEAT ENTER

VCD/CD

Off 01 01 A-B REPEAT ENTER

Note
- Depending on a disc, the Repeat function may not work.
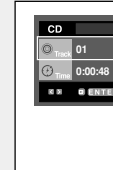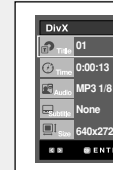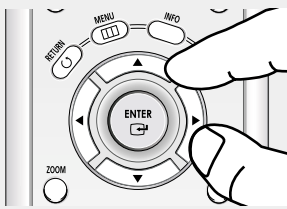- When VCD2.0 is in Menu Off mode only, this function works. Select Menu Off by pressing the DISC MENU buton.

Basic Functions

Slow Repeat Play
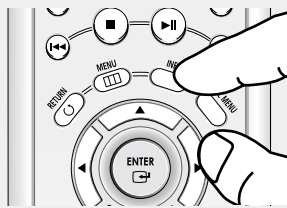
This feature allows you slowly to repeat scenes containing sports, dancing, musical instruments being played etc., so you can study them more closely.

When playing a DVD/VCD

1

During play, press the **PLAY/PAUSE (▶II)** button.

2

Press the **SEARCH (▶▶)** button to choose the play speed between 1/8, 1/4 and 1/2 of normal during PAUSE or STEP mode.

◄ The disc will play from A to B repeatedly at the speed you chose.

3

Press the **REPEAT** button on the remote control. Press the ◄/► buttons to select **A-B**.

4

Press the **ENTER** button at the point where you want repeat play to start (A). **B** is automatically highlighted. Press the **ENTER** button at the point where you want the repeat play to stop (B).

◄ To set A-B REPEAT, set (A) first, then set (B) after the following slow play time has elapsed:
1/8x: wait 40 seconds, then press B

1/4x: wait 20 seconds, then press B

1/2x: wait 10 seconds, then press B

5

To return to normal play, press the **CLEAR** button and then press the **PLAY/PAUSE (▶II)** button.

Note

When VCD2.0 is in Menu Off mode only, this function works. Select Menu Off by pressing the DISC MENU buton.

Using the A-B Repeat function

1. During slow playback, press the REPEAT A-B button at the point where you want repeat play to start (A). B is automatically highlighted.
2. Press the REPEAT A-B button at the point where you want the repeat play to stop (B).

- To return to normal play, press the CLEAR button and then press the PLAY/PAUSE(▶II) button.

Program Play & Random Play

Program Play (CD)
Program Play allows you to select the order in which you want tracks to play.

1

During play, press the **PROG** button.

2

Press the ◄/► buttons to select **PROGRAM**.
Press the **ENTER** button.

PROGRAM ◀▶ RANDOM

3

Press the ▲/▼/◄/► buttons to select the first track to add to the program. Press the **ENTER** button. The selection numbers appear in the Program Order box.

PROGRAM 01

Track				Program Order
01	02	03	04	-- -- -- --
05	06	07	08	-- -- -- --
09	10	11	12	-- -- -- --
13	14	15	16	-- -- -- --

ENTER ⤷ RETURN CLEAR

◄ - To return to the previous menu screen, press the RETURN button.
- To cancel the selected program order, press the CLEAR button.
- This unit can support a maximum of 20 programmed tracks.

4

Press the **PLAY/PAUSE (▶II)** button.
The disc will be played in programmed order.
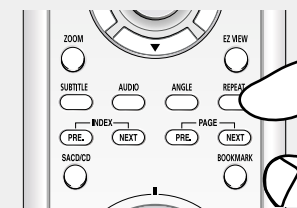
Random Play (CD)
Random Play plays a disc's tracks in random order.

1

Press the **PROG** button.

PROGRAM ◀▶ RANDOM

2

Press the ◄/► buttons to select **RANDOM**.
Press the **ENTER** button.

Note

- Depending on a disc, the Program and Random Play functions may not work.
- While in playback mode, press the CLEAR button on the remote control to cancel Program Play or Random Play.

Adjusting the Aspect Ratio (EZ View)

To play back using aspect ratio (DVD)

Press the **EZ VIEW** button.
- The screen size changes when the button is pressed repeatedly.
- The screen zoom mode operates differently depending on the screen setting in the Display Setup menu.
- To ensure correct operation of the **EZ VIEW** button, you should set the correct aspect ratio in the Display Setup menu. (See pages 65 to 67).

◀ To make the aspect ratio bar disappear, press the CLEAR button.

If you are using a 16:9 TV

For 16:9 aspect ratio discs

- **WIDE SCREEN**
  Displays the content of the DVD title in 16:9 aspect ratio.

- **SCREEN FIT**
  The top and bottom portions of the screen are cut off. When playing a 2.35:1 aspect ratio disc, the black bars at the top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on a type of disc, the black bars may not disappear completely.)

- **ZOOM FIT**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

- **Normal Wide**
  Displays the content of the DVD title in 16:9 aspect ratio. The picture will look horizontally stretched.

- **SCREEN FIT**
  The top and bottom portions of the screen are cut off and the full screen appears. The picture will look vertically stretched.

- **ZOOM FIT**
  The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged.

- **Vertical Fit**
  When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.

If you are using a 4:3 TV

For 16:9 aspect ratio discs

- **4:3 Letter Box**
  Displays the content of the DVD title in 16:9 aspect ratio. The black bars will appear at the top and bottom of the screen.

- **4:3 Pan&Scan**
  The left and right portions of the screen are cut off and the central portion of the 16:9 screen is displayed.

- **SCREEN FIT**
  The top and bottom portions of the screen are cut off and a full screen appears. The picture will look vertically stretched.

- **ZOOM FIT**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

For 4:3 aspect ratio discs

- **Normal Screen**
  Displays the content of the DVD title in 4:3 aspect ratio.

- **SCREEN FIT**
  The top and bottom portions of the screen are cut off and the full screen appears. The picture will look vertically stretched.

- **ZOOM FIT**
  The top, bottom, left and right portions of the screen are cut off and the central portion of the screen is enlarged.

Note

This function may behave differently depending on the type of disc.

Advanced Functions

Selecting the Audio Language

You can select a desired audio language quickly and easily with the AUDIO button.

Using the AUDIO button (DVD/VCD/CD/MPEG4)

1
Press the **AUDIO** button.
The Audio changes when the button is pressed repeatedly.
- The audio languages are represented by abbreviations.

DVD

ENG DOLBY DIGITAL 5.1CH AUDIO

When playing a VCD or CD, you can select among **Stereo**, **Right** or **Left**.

VCD/CD

Stereo AUDIO

Press the ◄/► buttons to select the desired Audio on a MPEG4 then press the **ENTER** button.

MPEG4

PCM 1/2 ◄ ► ENTER

2
To remove the **AUDIO** icon, press the **CLEAR** or **RETURN** button.

Note
- This function depends on audio languages are encoded on the disc and may not work.
- A DVD disc can contain up to 8 audio languages.
- To have the same audio language come up whenever you play a DVD; Refer to "Using the Audio Language" on page 59.

Selecting the Subtitle Language

You can select a desired subtitle quickly and easily with the SUBTITLE button.

Using the SUBTITLE button (DVD/MPEG4)

1
Press the **SUBTITLE** button.
The subtitle changes when the button is pressed repeatedly.
The subtitle languages are represented by abbreviations.

DVD

Off SUBTITLE

MPEG4

Press the ◄/► buttons to select the desired subtitle language on a MPEG4 then press the **ENTER** button.

NONE ENTER

2
To remove the **SUBTITLE** icon, press the **CLEAR** or **RETURN** button.

Note
- Depending on DVDs, you can change the desired subtitle in the Disc Menu. Press the DISC MENU button.
- This function depends on what subtitles are encoded on the disc and may not work on all DVDs.
- A DVD disc can contain up to 32 subtitle languages.
- To have the same subtitle language come up whenever you play a DVD;
Refer to "Using the Subtitle Language" on page 60.

Advanced Functions

Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can use the ANGLE function.

Using the ANGLE button (DVD)

If the disc contains multiple angles, the ANGLE appears on the screen.

1

Press the **ANGLE** button, then the ANGLE icon will appear with the current angle number and the number of angles available.

2

Press the **ANGLE** button repeatedly to select the desired angle. To remove the ANGLE icon, press the **CLEAR** or **RETURN** button.

Note
If the disc has only one angle, this feature won't work. Currently, very few discs have this feature.

Using the Instant Replay/Skip Function

Using the Instant Replay function (DVD)

If you miss a scene, you can see it again using this function.

Press the **INSTANT REPLAY** button.
- The current scene moves backward about 10 seconds, and plays back.

Using the Instant Skip function (DVD)

Use this function to skip playback about 10 seconds ahead of the current scene.

Press the **INSTANT SKIP** button.
- Playback will skip ahead 10 seconds.

Note
Depending on the disc, these functions may not work.

Using the Bookmark Function

This feature lets you bookmark sections of a DVD or VCD (Menu Off mode) so you can quickly find them at a later time.

Using the Bookmark Function (DVD/VCD)

1

During play, press the **BOOKMARK** button on the remote control.

Using the MENU button.
During play, press the **MENU** button on the remote control.

Press the ▲/▼ buttons to select **Function**, then press the ▶ or **ENTER** button.

Info
Zoom
Bookmark
Repeat
EZ View
Front Display : On

Disc Menu
Title Menu
Function
Setup

ENTER RETURN MENU

Press the ▲/▼ buttons to select **Bookmark**, then press the ▶ or **ENTER** button.

Info
Zoom
Bookmark
Repeat
EZ View
Front Display : On

Disc Menu
Title Menu
Function
Setup

ENTER RETURN MENU

2

When you reach the scene you want to mark, press the **ENTER** button. Up to three scenes may be marked at a time.

Note
- When VCD2.0 is in Menu Off mode only, this function works. Select Menu Off by pressing the DISC MENU buton.

- Depending on a disc, the Bookmark function may not work.

Advanced Functions

Recalling a Marked Scene

1
During play, press the **BOOKMARK** button on the remote control.

2
Press the ◄/► buttons to select a marked scene.

3
Press the **PLAY/PAUSE** (►ll) button to skip to the marked scene.

Clearing a Bookmark

1
During play, press the **BOOKMARK** button on the remote control.

2
Press the ◄/► buttons to select the bookmark number you want to delete.

3
Press the **CLEAR** button to delete a bookmark number.

Using the Zoom Function

Using the Zoom Function (DVD/VCD)

1
During play, press the **ZOOM** button on the remote control.

Using the MENU button.
During play or pause mode, press the **MENU** button on the remote control.

Press the ▲/▼ buttons to select **Function**, then press the ► or **ENTER** button.

| Info |
| Zoom |
| Bookmark |
| Repeat |
| EZ View |
| Front Display : On |

Disc Menu / Title Menu / Function / Setup

● ENTER ● RETURN ● MENU

Press the ▲/▼ buttons to select **Zoom**, then press the ► or **ENTER** button.

| Info |
| **Zoom** |
| Bookmark |
| Repeat |
| EZ View |
| Front Display : On |

Disc Menu / Title Menu / Function / Setup

● ENTER ● RETURN ● MENU

2
Press the ▲/▼ or ◄/► buttons to select the part of the screen you want to zoom in on.
Press the **ENTER** button.

◄ During DVD play, press ENTER to zoom in 2X/4X/2X/Normal in order.

During VCD play, press ENTER to zoom in 2X/Normal in order.

Note
When VCD2.0 is in Menu Off mode only, this function works. Select Menu Off by pressing the DISC MENU buton.

Advanced Functions

DVD AUDIO Playback

1
Open the disc tray.
Place the DVD AUDIO disc on the tray.
- Place the DVD AUDIO disc with the labeled side up.
Close the tray.
- The tray closes and disc plays.

2
During play, press the **INFO** button on the remote control.

◀ You can select Info in the function menu by pressing the MENU button.

3
Press the ▲/▼ buttons to select the desired item.

DVD-AUDIO

DVD Audio
01
01
01
0:00:13

4
Press the ◀/▶ buttons to make the desired setup and then press the **ENTER** button.

◀ You may use the number buttons of the remote control to directly access a Group, Track, Page or to start the playback from the desired time.

5
To make the screen disappear, press the **INFO** button again.

◀ Some DVD-AUDIO discs don't down-mix audio. These discs always output 5.1ch analog audio regardless of audio setup.

Note

Group	Most DVD AUDIO discs are recorded in Groups you can change Groups with this Function. Bonus Group playback. Some DVD AUDIO discs have Bonus groups. If you want to play a Bonus group, you must enter the Bonus Group code. The code is usually on the DVD AUDIO disc case.
Track	To access the desired Track when there is more than one on the DVD AUDIO disc.
Page	If pages are included with the DVD-AUDIO disc, you can see this icon. To access the desired page, you can use this Function.
Slide	If a slide show is included with the DVD-AUDIO disc, you can see this icon. In this case, you cannot use PAGE PRE./NEXT buttons.
V-zone	If a video zone is included with the DVD-AUDIO disc, you can see this icon. In this case you cannot use PAGE PRE./NEXT buttons.
Time	Allows playback of music from a desired time by using the number buttons.

Page, Index Function

1
Use **PAGE PRE./NEXT** buttons to Skip the Page when there is more than one in a group.
- Some DVD-AUDIO discs include a slide show. In the slide show mode, this function can not be used.
- PAGE is still images. You can see the still images when a DVD-AUDIO disc is played back.

Note
Depending on a disc, this function may not work.

Album
Group 1 ~ Group 9
ATTs 1
Track 1 ~ Track 99
Index 1 ~ Index 99

2
Use **INDEX PRE./NEXT** buttons to Skip the Index when there is more than one in a track.

Advanced Functions

REPEAT Play

1

Press the **REPEAT** button on the remote control. Repeat screen appears.

2

Press the ◄/► buttons to select **Track**, **Group**, then press the **ENTER** button.

DVD-AUDIO

Off 01 01 REPEAT ENTER

◄ Track (🎵): repeats the track that is playing.
Group (💿): repeats the group that is playing.

AUDIO Format Display

1

During DVD AUDIO playback, press the **AUDIO** button to see AUDIO Format information.

DVD-AUDIO

PPCM 5.1CH

◄ - LPCM : **L**inear **P**ulse **C**ode **M**odulation.
Not compressed Audio data format.
- PPCM : **P**acket **P**ulse **C**ode **M**odulation.
Lossless compressed Audio data format.

Note
Some DVD-AUDIO discs don't allow audio down-mixing.

Super Audio CD Playback

1

Open the disc tray.
Place the Super Audio CD disc on the tray.
- Place the Super Audio CD disc with the labeled side up. Close the tray.
- The tray closes and you should get a screen.

SACD Off
00:00:23 2CH MULTI
001.West Side Story : MUSIC 1
002.West Side Story : MUSIC 2
003.West Side Story : MUSIC 3
004.West Side Story : MUSIC 4
005.West Side Story : MUSIC 5
006.West Side Story : MUSIC 6
West Side Story : MUSIC 1
ENTER REPEAT INFO

Super Audio CD Clips Menu On Play Function

1

Use the ▲/▼ buttons to select a music title.

2

Press the **ENTER** button to begin playback of the music title.
- If you want to use the Repeat Function, press the REPEAT button to change the mode, such as Off, Track, Disc.
* Off : Normal Playback
* Track : Repeats the current music title.
* Disc : Repeats the music titles in the Super Audio CD.

◄ If you want to see information about the Disc title and Artist, press the INFO button.
If you want to convert to regular CD mode, press the SACD/CD button.
During play or stop mode, you can change the 2CH or MULTI mode by using LEFT/RIGHT buttons. (You can use this function when Super Audio CD disc includes both multi channel and 2 channel audio format.)

Advanced Functions

Super Audio CD Clips Menu Off Play Function

1

In Stop mode, press the **DISC MENU** button until the Clips menu is off.

2

During play, press the **INFO** button on the remote control.

◄ You can select Info in the function menu by pressing the MENU button.

3

Press the ▲/▼ buttons to select the desired item.

SACD

```
SACD
Track    01
Time     0:00:13
Audio    MULTI
         ENTER
```

4

Press the ◄/► buttons to make the desired setup and then press the **ENTER** button.

◄ You may use the number buttons of the remote control to directly access a track and to start the playback from the desired time.

5

To make the screen disappear, press the **INFO** button again.

CD Layer Play Function

1

During Super Audio CD playback, press the **SACD/CD** button to playback the CD layer of a dual layer Super Audio CD disc. (Refer to the page 24 for setting CD playback Function).

```
CD
Track    01
Time     0:00:13
         ENTER
```

Note
- Some Super Audio CD discs do not include a CD layer.
- Depending on a disc, this function may not work.

Note

◎ Track	(SACD) To access the desired Track when there is more than one in the disc.
⏱ Time	(SACD) Allows playback from a desired time by using the number buttons.
🔊 Audio	(SACD) If you want to change the 2 channel or multi channel mode in play or stop mode, press AUDIO button. - You can use this function when the Super Audio CD disc includes multi channel and 2 channel audio format. • 2CH : L, R • MULTI : F/L, F/R, R/L, R/R, C/T, S/W
◎ Track	(CD) To access the desired Track when there is more than one in the disc.
⏱ Time	(CD) Allows playback from a desired time. You must enter the starting time as a reference.

Advanced Functions

Clips Menu for MP3/WMA/JPEG/MPEG4

Discs with MP3/WMA/JPEG/MPEG4 contain individual songs and/or pictures that can be organized into folders as shown below. They are similar to how you use your computer to put files into different folders.

Open the disc tray.
Place the disc on the tray.
Close the tray.
The tray closes and this
screen displays.

Parent Folder, Current Folder   Folders and Files in
and Peer Folders   Current Folder

- ▯ : Name of currently playing file.

- ▯ : Current Playback Time.

- ▯ : Current Playback Mode : There are four
      modes. They can be selected in order by
      pressing the **REPEAT** button.
      - Off: Normal Playback
      - Track: Repeats the current track.
      - Folder: Repeats the current folder.
      - Random: Files in the disc will be played
                in random order.

- **MP3** : MP3 file icon.

- **WMA** : WMA file icon.

- **JPG** : JPEG file icon.

- **AVI** : AVI file icon.

- ▯ : Folder icon.

- ▯ : Current Folder icon.

Folder Selection

The folder can only be selected in the Stop mode.

- To select the Parent Folder
Press the **RETURN** button to go to the parent folder,
or press the ▲/▼ buttons to select ".." and
press **ENTER** to go to the parent folder.

- To select the Peer Folder
Press the ◄/► buttons to highlight the left window.
Press the ▲/▼ buttons to select the desired folder,
then press **ENTER**.

- To select the Sub-Folder
Press the ◄/► buttons to highlight the right window.
Press the ▲/▼ buttons to select the desired folder,
then press **ENTER**.

Root
WMA
JPEG
MP3   Parent Folder
MUSIC   Current Folder
1st
2nd   Sub-Folders
SONG FILE 1
SONG FILE 2   Peer Folders
SONG FILE 3
MPEG4 FILES

MP3/WMA Playback

1
Open the disc tray.
Place the disc on the tray.
Close the tray.

2
Press the ▲/▼ or ◄/►
buttons to select a song
file.
Press **ENTER** to begin
playback of the song file.

◄ When a disc that contains both MP3
  and WMA files, only one type will
  play, not both.

Repeat/Random playback

1
Press the **REPEAT** button
to change the playback
mode. There are four
modes; **Off**, **Track**, **Folder**
and **Random**.

- Off: Normal Playback
- Track: Repeats the current song file.
- Folder: Repeats the song files which have the same extension
  in the current folder.
- Random: Song files which have the same extension will be
  played in random order.

To resume normal play, press the **CLEAR** button.

**Advanced
Functions**

CD-R MP3/WMA file

When you record MP3 or WMA files on CD-R, please refer to the following.

- Your MP3 or WMA files should be ISO 9660 or JOLIET format.
ISO 9660 format and Joliet MP3 or WMA files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. This format is the most widely used.

- When naming your MP3 or WMA files, do not exceed 8 characters, and enter ".mp3, .wma" as the file extension.
General name format : Title.mp3. or Title.wma. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/,\,=,+).

- Use a decompression transfer rate of at least 128 Kbps when recording MP3 files.
Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting CD audio sound requires an analog/digital sampling rate, that is conversion to MP3 format, of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality. Conversely, files with decompression rates below 128 Kbps will not be played properly.

- Use a decompression transfer rate of at least 64Kbps when recording WMA files.
Sound quality with WMA files basically depends on the rate of compression/decompression you choose.
Getting CD audio sound requires an analog/digital sampling rate, that is conversion to WMA format, of at least 64Kbps and up to 192Kbps.
Conversely, files with decompression rates below 64Kbps or over 192Kbps will not be played properly.

- Do not try recording copyright protected MP3 files.
Certain "secured" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trade mark of The SDMI Foundation). You cannot copy such files.

- Important:
The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).
- This unit can play a maximum of 3000 files and 300 folders per disc.

MPEG4 Playback

MPEG4 Play Function
AVI files are used to contain the audio and video data. Only AVI format files with the ".avi" extensions can be played.

1
Open the disc tray.
Place the disc on the tray.
Close the tray.

2
Press the ▲/▼ or ◄/► buttons to select an avi file (DivX/XviD), then press the **ENTER** button.

Repeat Playback

1
Press the **REPEAT** button to change playback mode. There are 4 modes, such as **Off**, **Folder**, **Title** and **A-B** (a distance between two points appointed by user).

- Folder : Repeats the AVI files which have the same extension in the current folder.
- Title : repeats the title that is playing.
- A-B : repeats a segment of the file that you select.

Advanced Functions

MPEG4 Function Description

Function	Description	Reference page
Skip (I◄◄ or ►►I)	During play, press the I◄◄ or ►►I button, it moves forward or backward 5 minutes.	-
Search (◄◄ or ►►)	During play, press the SEARCH (◄◄ or ►►) button and press again to search at a faster speed. Allows you to search at a faster speed in an AVI file. (2X, 4X, 8X)	-
Slow Motion Play	Allows you to search at a slower speed in an AVI file. (1/8X, 1/4X, 1/2X)	P 23
Step Motion Play	Each time the STEP button is pressed, a new frame will appear.	P 23
ZOOM	2X/4X/2X/Normal in order	P 39

- These functions may not work depending on MPEG4 file.

Note
- Some MPEG4 files created on a personal computer may not be play back.
  That is why Codec Type, Version and Higher resolution over specification is not supported.
- This unit supports CD-R/RW written in MPEG4 in accordance with the "ISO9660 format".

CD-R AVI file

This unit can play the following video compression formats within the AVI file format:
- DivX 3.11 contents
- DivX 4 contents (Based on MPEG4 Simple Profile)
- DivX 5 contents (MPEG4 simple profile plus additional features such as bi-directional frames. Qpel and GMC are also supported.)
- XviD MPEG4 compliant Contents.

This unit supports all resolutions up to maximum below.

DivX3.11 & DivX4 & XviD	DivX5
Bitrate may fluctuate: Device may skip decoding the high bitrate portions and begin decoding again when Bitrate returns to normal.	720 x 480 @30fps 720 x 576 @25fps : Maximum bitrate : 4Mbps

Picture CD Playback

1

Select the desired folder.

2

Press the ▲/▼ buttons to select a Picture file in the clips menu and then press the **ENTER** button.

3

Press the **INFO** button to display the menu. Press the ◄/► buttons to select the menu you want to view, then press the **ENTER** button.

Note
- If no buttons on the remote control are pressed for 10 seconds, the menu will disappear.
- Press the STOP button to return to the clips menu.
- When playing a Kodak Picture CD, the unit displays the Photo directly, not the clips menu.

Album Screen

- ⊞ : Returns to the Album Screen.
- To see the next six pictures, press the ►►I button.
- To see the previous six pictures, press the I◄◄ button.

Rotation

- : Each time the **ENTER** button is pressed, the picture rotates 90 degrees clockwise.

Zoom

- ⊕ : Press the ▲/▼ or ◄/► buttons to select the part of the screen you want to zoom in on. Press the **ENTER** button. Each time the **ENTER** button is pressed, the picture is enlarged up to 4X. (2X → 4X → 2X → Normal)

Slide Show

- : The unit enters slide show mode.
- Before beginning the Slide Show, the picture interval must be set. Press the ◄/► buttons to select a desired icon, then press the ENTER button.
- : The pictures change automatically with about a 6 second interval.
- : The pictures change automatically with about a 12 second interval.
- : The pictures change automatically with about a 18 second interval.

Note
- Depending on a file size, the amount of time between each picture may be different from the set interval time.
- If you don't press any button, the slide show will start automatically in about 10 seconds by default.

Advanced Functions

Picture CD Playback for HD-JPEG

Must connect to HDMI or DVI. Resolution should be 720p/768p/1080i, and HD-JPEG should be in HD mode. (See page 67)

1

Set the HD-JPEG to HD from **Setup** menu. (See page 67)

```
                          HDMI SETUP
Resolution              : 720p
Format                  : RGB-Normal
HD-JPEG                 : HD




        ● ENTER   ● RETURN   ● M E N U
```

Note
- Only available in HDMI/COMPONENT(P-SCAN) output.

◄ To make the setup menu disappear, press the MENU button.

2

Select the desired folder.

```
              Off


     ROOT       ROOT
                WMA
                JPEG
                MP3
                MPEG4

     ● ENTER   ● RETURN   ● MENU
```

3

Press the ▲/▼ buttons to select a Picture file in the clips menu and then press the **ENTER** button.

```
              Off


     ROOT       ..
     WMA        720
     JPEG       720
     MP3        720
     MPEG4

     ● ENTER   ● RETURN   ● MENU
```

◄ Press the STOP (■) button to return to the clips menu.

When playing a Kodak Picture CD, the unit displays the Photo directly, not the clips menu.

Rotation

Press the **ANGLE** button to rotate the screen 90 degrees clockwise.

Skip Picture

Press the ◄◄ or ►► button to select previous or next picture.

Slide Show

Press the the **PLAY/PAUSE(►II)** button to start SLIDE function.

Press the the **PLAY/PAUSE(►II)** button again at this time to stop SLIDE function.

Note
- Depending on a file size, the amount of time between each picture may be different from the set interval time.
- Album Screen, Zoom, and Info functions are not available when displaying images in HD-JPEG mode.
- OSD (On Screen Display) messages are not displayed when displaying images in HD-JPEG mode.
- The image may be displayed at a smaller size depending on the picture size when displaying images in HD-JPEG mode.

CD-R JPEG Discs

- Only files with the ".jpg" and ".JPG" 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.
- The name of the JPEG file may not be longer than 8 characters and should contain no blank spaces or special characters (. / = +).
- Only a consecutively written multi-session disc can be played. If there is a blank segment in the multi-session disc, the disc can be played only up to the blank segment.
- A maximum of 3000 images can be stored on a single CD.
- Kodak Picture CDs are recommended.
- When playing a Kodak Picture CD, only the JPEG files in the pictures folder can be played.
- Kodak Picture CD: The JPEG files in the pictures folder can be played automatically.
- Konica Picture CD: If you want to see the Picture, select the JPEG files in the clips menu.
- Fuji Picture CD: If you want to see the Picture, select the JPEG files in the clips menu.
- QSS Picture CD: The unit may not play QSS Picture CD.
- If the number of files in 1 Disc is over 3000, only 3000 JPEG files can be played.
- If the number of folders in 1 Disc is over 300, only JPEG files in 300 folders can be played.

Advanced Functions

Chapter 5

Using the Setup Menu

The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.

1

With the unit in Stop mode, press the **MENU** button on the remote control.
Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu | **Language Setup** ►
Title Menu | **Audio Setup** ►
| **Display Setup** ►
| **Parental Setup :** ►
Function | **DivX(R) Registration** ►
Setup | **EZ Setup** ►
● ENTER ● RETURN ● M E N U

❶ Language Setup : Setup of the Language.
❷ Audio Setup : Setup of the Audio Options.
❸ Display Setup : Setup of the Display Options. Use to select which type of screen you want to watch and several display options.
❹ Parental Setup : Setup of the Parental Level. Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.
❺ DivX(R) Registration : Please use the Registration code to register this player with the DivX(R) Video On Demand format. To learn more go to www.divx.com/vod.
❻ EZ Setup : Using the EZ Setup, you can setup PLAYER MENU LANGUAGE, TV Aspect, and PCM Down Sampling in a single menu to suit your preference.

2

Press the ▲/▼ buttons to access the different features. Press the ► or **ENTER** button to access the sub features.

3

To make the setup screen disappear after setting up, press the **MENU** button again.

Note
Depending on the disc, some Setup menu selections may not work.

Setting up EZ-Setup

Using the EZ Setup, you can setup PLAYER MENU LANGUAGE, TV Aspect, and PCM Down Sampling in a single menu to suit your preference.

1

With the unit in Stop mode, press the **MENU** button.

2

Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu | **Language Setup** ►
Title Menu | **Audio Setup** ►
| **Display Setup** ►
| **Parental Setup :** ►
Function | **DivX(R) Registration** ►
Setup | **EZ Setup** ►
● ENTER ● RETURN ● M E N U

3

Press the ▲/▼ buttons to select **EZ Setup**, then press the ► or **ENTER** button.

Disc Menu | **Language Setup** ►
Title Menu | **Audio Setup** ►
| **Display Setup** ►
| **Parental Setup :** ►
Function | **DivX(R) Registration** ►
Setup | **EZ Setup** ►
● ENTER ● RETURN ● M E N U

4

To begin **EZ Setup**, press the ▲/▼ buttons to select **Yes**, then press the **ENTER** button.

EZ SETUP
EZ Setup start?
Yes
No
Current Settings
Player Menu Language : English
TV Aspect : 4:3 L-Box
PCM Down Sampling : On
● ENTER ● RETURN ● M E N U

5

Press the ▲/▼ buttons to select the desired player menu language, then press the **ENTER** button.

EZ SETUP
Player Menu Language
English
Français
Deutsch
Español
Thai
● ENTER ● RETURN ● M E N U

6

Press the ▲/▼ buttons to select the desired TV Aspect, then press the **ENTER** button.
(See page 66)

EZ SETUP
TV Aspect
4:3 Letter Box
4:3 Pan&Scan
16:9 Wide
● ENTER ● RETURN ● M E N U

Changing
Setup Menu

7

Press the ▲/▼ buttons to select the PCM Down Sampling **On** or **Off**, then press the **ENTER** button. (See page 62)

EZ SETUP
PCM Down Sampling
Off
On

ENTER   RETURN   MENU

8

If an AV Receiver is connected to the TV, press the ▲/▼ buttons to select **Connected,** then press the **ENTER** button.

EZ SETUP
AV Receiver Connected?
Connected
Not Connected

ENTER   RETURN   MENU

Press the ▲/▼/◄/► buttons to select desired item, then press the **ENTER** button to set the speaker. (See page 64)

When finished setting the speaker, press the ▲/▼/◄/► buttons to select **END**, then press the **ENTER** button.

You can also use the **RETURN** button to exit.

EZ SETUP
L   C   LFE   R
Small   Small   On   Small
Small   User   Small
SL   END   SR

ENTER   RETURN   MENU

8⁻¹

If an AV Receiver is not connected to the TV, press the ▲/▼ buttons to select **Not connected**, then press the **ENTER** button.

EZ SETUP
AV Receiver Connected?
Connected
Not Connected

ENTER   RETURN   MENU

Press the **ENTER** to finish.

EZ SETUP

Settings Complete
Press ENTER to Exit

ENTER   RETURN   MENU

9

Press the **MENU** button to exit.

Setting Up the Language Features

If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.

Using the Player Menu Language

1

With the unit in Stop mode, press the **MENU** button.

2

Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu   Language Setup   ►
Audio Setup   ►
Title Menu   Display Setup   ►
Parental Setup :   ►
Function   DivX(R) Registration   ►
Setup   EZ Setup   ►

ENTER   RETURN   MENU

3

Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.

Disc Menu   Language Setup   ►
Audio Setup   ►
Title Menu   Display Setup   ►
Parental Setup :   ►
Function   DivX(R) Registration   ►
Setup   EZ Setup   ►

ENTER   RETURN   MENU

4

Press the ▲/▼ buttons to select **Player Menu**, then press the ► or **ENTER** button.

LANGUAGE SETUP
Player Menu   : English   ►
Disc Menu   : English   ►
Audio   : English   ►
Subtitle   : Automatic   ►

ENTER   RETURN   MENU

5

Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.

PLAYER MENU LANGUAGE
Player Menu   English
Français
Deutsch
Español
Thai

ENTER   RETURN   MENU

◄ - The language is selected and the screen returns to Language Setup menu.

- To make the setup menu disappear, press the MENU button.

Changing Setup Menu

Using the Disc Menu Language

This function changes the text language only on the disc menu screens.

1

With the unit in Stop mode, press the **MENU** button.

2

Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup	►
	Audio Setup	►
Title Menu	Display Setup	►
	Parental Setup :	►
Function	DivX(R) Registration	►
Setup	EZ Setup	►

● ENTER ● RETURN ● M E N U

3

Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup	►
	Audio Setup	►
Title Menu	Display Setup	►
	Parental Setup :	►
Function	DivX(R) Registration	►
Setup	EZ Setup	►

● ENTER ● RETURN ● M E N U

4

Press the ▲/▼ buttons to select **Disc Menu**, then press the ► or **ENTER** button.

LANGUAGE SETUP

Player Menu	: English	►
Disc Menu	: English	►
Audio	: English	►
Subtitle	: Automatic	►

● ENTER ● RETURN ● M E N U

5

Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.

DISC MENU LANGUAGE

	English
Disc Menu	Français
	Deutsch
	Español
	Thai
	Others

● ENTER ● RETURN ● M E N U

◄ - Select "Others" if the language you want is not listed.

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.

- The language is selected and the screen returns to Language Setup menu.

- To make the setup menu disappear, press the MENU button.

Using the Audio Language

1
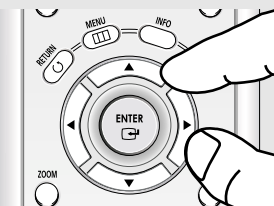
With the unit in Stop mode, press the **MENU** button.

2

Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup	►
	Audio Setup	►
Title Menu	Display Setup	►
	Parental Setup :	►
Function	DivX(R) Registration	►
Setup	EZ Setup	►

● ENTER ● RETURN ● M E N U

3

Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup	►
	Audio Setup	►
Title Menu	Display Setup	►
	Parental Setup :	►
Function	DivX(R) Registration	►
Setup	EZ Setup	►

● ENTER ● RETURN ● M E N U

4

Press the ▲/▼ buttons to select **Audio**, then press the ► or **ENTER** button.

LANGUAGE SETUP

Player Menu	: English	►
Disc Menu	: English	►
Audio	: English	►
Subtitle	: Automatic	►

● ENTER ● RETURN ● M E N U

5

Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.

AUDIO LANGUAGE

	English
Audio	Français
	Deutsch
	Español
	Thai
	Original
	Others

● ENTER ● RETURN ● M E N U

◄ - Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in.

- Select "Others" if the language you want is not listed.

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.

- The language is selected and the screen returns to Language Setup menu.

- To make the setup menu disappear, press the MENU button.

Changing Setup Menu

Using the Subtitle Language

1

With the unit in Stop mode, press the **MENU** button.

2

Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup	►
	Audio Setup	►
Title Menu	Display Setup	►
	Parental Setup :	
Function	DivX(R) Registration	►
Setup	EZ Setup	►
ENTER RETURN MENU		

3

Press the ▲/▼ buttons to select **Language Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup	►
	Audio Setup	►
Title Menu	Display Setup	►
	Parental Setup :	
Function	DivX(R) Registration	►
Setup	EZ Setup	►
ENTER RETURN MENU		

4

Press the ▲/▼ buttons to select **Subtitle**, then press the ► or **ENTER** button.

	LANGUAGE SETUP
Player Menu	: English ►
Disc Menu	: English ►
Audio	: English ►
Subtitle	: Automatic ►
ENTER RETURN MENU	

5

Press the ▲/▼ buttons to select the desired language, then press the ► or **ENTER** button.

	SUBTITLE LANGUAGE
	Automatic
	English
	Français
Subtitle	Deutsch
	Español
	Thai
	Others
ENTER RETURN MENU	

◄ - Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio language.

- Select "Others" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.

- The language is selected and the screen returns to setup menu.

- To make the setup menu disappear, press the MENU button.

Setting Up the Audio Options

Audio Options allows you to setup the audio device and sound status settings depending on the audio system in use.

1

With the unit in Stop mode, press the **MENU** button.

2

Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup	►
	Audio Setup	►
Title Menu	Display Setup	►
	Parental Setup :	
Function	DivX(R) Registration	►
Setup	EZ Setup	►
ENTER RETURN MENU		

3

Press the ▲/▼ buttons to select **Audio Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup	►
	Audio Setup	►
Title Menu	Display Setup	►
	Parental Setup :	
Function	DivX(R) Registration	►
Setup	EZ Setup	►
ENTER RETURN MENU		

4

Press the ▲/▼ buttons to select the desired item, then press the ► or **ENTER** button.

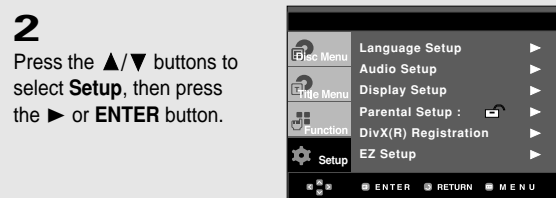| | AUDIO SETUP |
Dolby/DTS Digital Out	: PCM
MPEG-2 Digital Out	: PCM
Dynamic Compression	: On
PCM Down Sampling	: On
Speaker Setup	►
ENTER RETURN MENU	

◄ To make the setup menu disappear, press the MENU button.

Changing Setup Menu

❶ Dolby/DTS Digital Out
  - PCM : Converts to PCM(2CH) audio.

  - Bitstream : Outputs Dolby Digital or DTS Bitstream via digital output.
              Select Bitstream when connecting to a Dolby Digital and DTS Decoder.

❷ MPEG-2 Digital Out
  - PCM : Converts to PCM(2CH) audio.

  - Bitstream : Converts to MPEG-2 Digital Bitstream (5.1CH or 8CH).
              Select Bitstream when using the Digital Audio Output.

❸ Dynamic Compression
  - On : To select dynamic compression.

  - Off : To select the standard range.

❹ PCM Down Sampling
  - On : Select this when the Amplifier connected to the player is not 96KHz compatible.
        In this case, the 96KHz signals will be down converted to 48KHZ.

  - Off : Select this when the Amplifier connected to the player is 96KHz compatible.
        In this case, all signals will be output without any changes.

  ### Note

  Even when PCM Down sampling is Off

  • Some discs will only output down sampled audio through the digital outputs.

❺ Speaker Setup (See pages 63~64)

HDMI
- If your TV is not compatible with compressed multi-channel formats (Dolby Digital, DTS, MPEG), you should set Digital Audio to PCM.

- If your TV is not compatible with LPCM sampling rates over 48kHz, you should set PCM Down sampling to On.

- SACD audio is only available through the analog outputs. It is not possible to output SACD audio via the HDMI output or Digital Audio Output.

Note
• To make the Setup menu disappear, press the MENU button.

• DVD-AUDIO
  - Outputs 2 channel digital audio only.
  - Some DVD-AUDIO discs do not downmix, so they will not output 2 channel digital audio.
  - MULTI channel DVD-AUDIO discs play back through the analog outputs.

• Super Audio CD
  - Outputs analog signals only.
  - Super Audio CD audio is only available through the analog outputs.
   It is not possible to output Super Audio CD audio via the HDMI output or Digital Audio Output.

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

ENG-62

CHANGING SETUP MENU

Surround Sound Speaker Setup

1
With the unit in Stop mode, press the **MENU** button.

2
Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Language Setup ►
Audio Setup ►
Display Setup ►
Parental Setup : ►
DivX(R) Registration ►
EZ Setup ►

ENTER RETURN MENU

3
Press the ▲/▼ buttons to select **Audio Setup**, then press the ► or **ENTER** button.

Language Setup ►
Audio Setup ►
Display Setup ►
Parental Setup : ►
DivX(R) Registration ►
EZ Setup ►

ENTER RETURN MENU

4
Press the ▲/▼ buttons to select **Speaker Setup**, then press the ► or **ENTER** button.

AUDIO SETUP
Dolby/DTS Digital Out   : PCM
MPEG-2 Digital Out   : PCM
Dynamic Compression   : On
PCM Down Sampling   : On
Speaker Setup   ►

ENTER RETURN MENU

5
Press the ▲/▼/◄/► buttons to select the desired item, then press the **ENTER** button to set the speaker.

SPEAKER SETUP
L Small   C Small   LFE On   R Small
   Small   Test User   Small
SL   SR

ENTER RETURN MENU

◄ To make the setup menu disappear, press the MENU button.

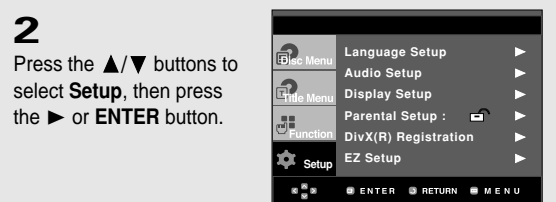ENG-63

The default settings : FRONT L, R (Small), CENTER (Small), SURROUND (Small).
Select the size of the speakers to be connected.

❶ Front (FL, FR)
   - Large: Normally select this.
   - Small: When the sound distorts or the surround sound effects are difficult to hear, select this.
          This activates the Dolby Digital bass redirection circuitry and outputs the bass
          frequencies of the speaker from the subwoofer.

❷ Center
   - None: If you do not connect a center speaker, select this.
   - Large: Normally select this.
   - Small: When the sound distorts, select this.
          This activates the Dolby Digital bass redirection circuitry and outputs the bass
          frequencies of the center speaker from other speakers.
❸ Surround (SL, SR)
   - None: If you do not connect a center speaker, select this.
   - Large (Rear/Side): Normally select either of these according to the rear speaker's position.
   - Small (Rear/Side): When the sound distorts or the surround sound effects are difficult to hear,
                    select either of these according to the rear speaker's position.
                    This activates the Dolby Digital bass redirection circuitry and outputs the
                    bass frequencies of the rear speaker from other speakers.

Setting up Test

The test output signals come clockwise starting from the Front Speaker(L).
Adjust Channel Balance so that speakers output equally in your room.
FRONT(L) → CENTER → SUBWOOFER → FRONT(R) → SURROUND(R) → SURROUND(L)

Note

To make the Setup menu disappear or return to menu screen during set up, press RETURN or
◄ button.

• The subwoofer test output signal is lower than the other speakers.
• The MPEG Multichannel logo is a trademark registered by PHILIPS Corporation.
• If you set Front (L, R) "Small", LFE (Subwoofer) is set "On" automatically.

Setting Up the Display Options

Display options enable you to set various video functions of the player.

1
With the unit in Stop
mode, press the **MENU**
button.

2
Press the ▲/▼ buttons to
select **Setup**, then press
the ► or **ENTER** button.

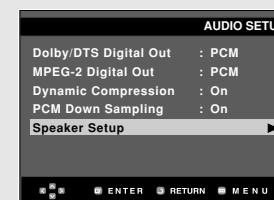|	
Disc Menu	Language Setup ►
Title Menu	Audio Setup ►
	Display Setup ►
Function	Parental Setup : ►
	DivX(R) Registration ►
Setup	EZ Setup ►

ENTER RETURN MENU

3
Press the ▲/▼ buttons to
select **Display Setup**,
then press the ► or
ENTER button.

Disc Menu	Language Setup ►
Title Menu	Audio Setup ►
	Display Setup ►
Function	Parental Setup : ►
	DivX(R) Registration ►
Setup	EZ Setup ►

ENTER RETURN MENU

4
Press the ▲/▼ buttons to
select the desired item,
then press the ► or
ENTER button.

DISPLAY SETUP	
TV Aspect	: 4:3 L-Box ►
Still Mode	: Auto
Screen Messages	: On
TV System	: PAL
Video Output	: COMPOSIT/S-VID ►
HDMI	: 576p ►
Picture Quality	►

ENTER RETURN MENU

◄ To make the setup menu disappear, press the
  MENU button.

Changing
Setup Menu

❶ TV Aspect

Depending on a type of television you have, you may want to adjust the screen setting (aspect ratio).

- 4:3 Letter Box : Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

- 4:3 Pan&Scan : Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

- 16:9 Wide : You can view the full 16:9 picture on your wide screen TV.

```
                    TV ASPECT

 4:3 Letter Box        [ ⊙ ]

 4:3 Pan&Scan          [ ⊙ ]

 16:9 Wide             [ ⊙ ]


 ◄▒► ● ENTER ● RETURN ● MENU
```

❷ Still Mode

These options will help prevent picture shake in still mode and display small text clearer.

- Auto : When selecting Auto, Field/Frame mode will be automatically converted.

- Field : Select this feature when the screen shakes in the Auto mode.

- Frame : Select this feature when you want to see small letters more clearly in the Auto mode.

❸ Screen Messages

Use to turn on-screen messages On or Off.

❹ TV System

1. NTSC Disc : In case of using NTSC disc
 • If your TV system only has PAL-Video input, you must choose "PAL". When you choose "PAL", Interlace output format is PAL 60 Hz output.
 • If your TV system only has NTSC, input you must choose "NTSC Output".
 • If you set up the NTSC TV system, HDMI output frame rate is 60 Hz.

2. PAL Disc : In case of using PAL disc
 • If your TV system only has NTSC-Video input, you must choose "NTSC Output".
 • If your TV system only has PAL input, you must choose "PAL Output".
 • If you set up the PAL TV system, HDMI output frame rate is 50 Hz.

❺ Video Output

Select Video Output.

- COMPOSITE/S-VIDEO : Select when you want to use Video and S-Video Out.

- COMPONENT(I-SCAN) : Select when you want to use Video and Component 525i/625i(Interlace) Out.

- HDMI/COMPONENT(P-SCAN) : Select when you want to use Component 525p/625p(Progressive) Out or HDMI.

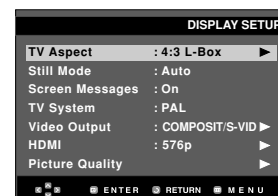 • If you press the VIDEO SEL. button, Video output mode is changed in regular sequence in no disc mode. (COMPOSITE/S-VIDEO → COMPONENT (I-SCAN) → HDMI/COMPONENT(P-SCAN))

 • If the Yes/No selection in the Display Setup sub Menu is not made within 10 seconds, the screen returns to the previous menu.

```
                    DISPLAY SETUP

 TV Aspect         : 4:3 L-Box     ►
 Still Mode        : Auto
 Screen Messages   : On
 TV System         : PAL
 Video Output      : COMPOSIT/S-VID ►
 HDMI              : 576p          ►
 Picture Quality                   ►

 ◄▒► ● ENTER ● RETURN ● MENU
```

```
                    DISPLAY SETUP

 COMPOSITE/S-VIDEO
 COMPONENT(I-SCAN)
 HDMI/COMPONENT(P-SCAN)



 ◄▒► ● ENTER ● RETURN ● MENU
```

---

❻ HDMI

This setting is used when the unit is connected by HDMI or DVI to Display devices (TV, Projector, etc.).

- Resolution
 • 480p/576p : 720 x 480, 720 x 576
 • 720p : 1280 x 720
 • 768p : 1024 x 768
 • 1080i : 1920 x 1080

- Format
 You can use this function to set HDMI or DVI output's digital data RGB range.
 • RGB-Normal : HDMI/DVI Limited range RGB data output.
 • RGB-Expand : HDMI/DVI Full range RGB data output.
 • YCbCr-(4:4:4) : HDMI Limited range YCbCr-(4:4:4) output.
 • YCbCr-(4:2:2) : HDMI Limited range YCbCr-(4:2:2) output.
 If you set the HDMI output resolution to 768p, you cannot use YCbCr format.

 Limited range - Black/White and color level displayed within Limited data range.
 ex) When the bit depth is 8 bits
 - Y : 16~235 - levels of brightness
 - CbCr : 16~240 - levels of color

 Ful range - Black/White and color level are expressed within full data range.
 ex) When the bit depth is 8 bits
 - Y : 0~255 - levels of brightness
 - CbCr : 0~255 - levels of color

- HD-JPEG
 • HD : High Definition image source
 - Available when resolution is 720p/768p/1080i in HDMI enabled.
 • SD : Standard Definition image source

```
                    HDMI SETUP

 Resolution        : 720p
 Format            : RGB-Normal
 DVI Output        : Mode B
 HD-JPEG           : HD


 ◄▒► ● ENTER ● RETURN ● MENU
```

- DVI Output
 You can use this function to set HDMI to DVI output format.
 • This function corrects a TV screen when it is not centered to secure a normal view.
 • If HDMI to DVI Output is set incorrectly, the screen can be biased.

❼ Picture Quality

- Black Level : Adjusts the brightness of the screen.(On or Off) It does not function in Progressive mode.
- Sharpness : Level 1 ~ Level 5
- Brightness : Level 1 ~ Level 5
- Color Saturation : Level 1 ~ Level 5

```
                    Picture Quality

 Black Level       : Off
 Sharpness         : Level 3
 Brightness        : Level 3
 Color Saturation  : Level 3


 ◄▒► ● ENTER ● RETURN ● MENU
```

- Consult your TV User's Manual to find out if your TV supports Progressive Scan. If Progressive Scan is supported, follow the TV User's Manual regarding Progressive Scan settings in the TV's menu system.
- If Video Output is set incorrectly, the screen may be blocked.
- The resolutions available for HDMI output depend on the connected TV or projector. For details, see the user's manual of your TV or projector.
- When the resolution is changed during playback, it may take a few seconds for a normal image to appear.
- If you set the HDMI output resolution 720p or 1080i, HDMI output provides better picture quality.

Changing Setup Menu

Setting Up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating, which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

1

With the unit in Stop mode, press the **MENU** button.

2

Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu
Title Menu
Function
Setup

Language Setup ►
Audio Setup ►
Display Setup ►
Parental Setup : ►
DivX(R) Registration ►
EZ Setup ►

ENTER RETURN MENU

3

Press the ▲/▼ buttons to select **Parental Setup**, then press the ► or **ENTER** button.

Disc Menu
Title Menu
Function
Setup

Language Setup ►
Audio Setup ►
Display Setup ►
Parental Setup : ►
DivX(R) Registration ►
EZ Setup ►

ENTER RETURN MENU

4

Press the ► or **ENTER** button to select **Yes** if you want to use a password. The Enter Password screen appears.

PARENTAL SETUP
Use Password : No

ENTER RETURN MENU

5

Enter your password. The Re-enter Password screen appears to confirm the password. Enter your password again.
The player is locked (🔒).

CREATE PASSWORD
Enter Password
· · · ·

RETURN

CREATE PASSWORD
Re-enter Password
· · · ·

RETURN

◄ To make the setup menu disappear, press the MENU button.

Setting Up the Rating Level

1

With the unit in Stop mode, press the **MENU** button.
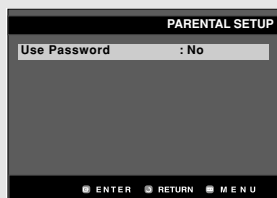
2

Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu
Title Menu
Function
Setup

Language Setup ►
Audio Setup ►
Display Setup ►
Parental Setup : ►
DivX(R) Registration ►
EZ Setup ►

ENTER RETURN MENU

3

Press the ▲/▼ buttons to select **Parental Setup**, then press the ► or **ENTER** button.

Disc Menu
Title Menu
Function
Setup

Language Setup ►
Audio Setup ►
Display Setup ►
Parental Setup : ►
DivX(R) Registration ►
EZ Setup ►

ENTER RETURN MENU

4

Enter your password.

PASSWORD CHECK
Enter Password
· · · ·

RETURN

5

Press the ▲/▼ buttons to select **Rating Level**, then press the ► or **ENTER** button.

PARENTAL SETUP
Use Password : Yes
Rating Level : 8 ►
Change Password ►

ENTER RETURN MENU

6

Press the ▲/▼ buttons to select the Rating Level you want, then press the ► or **ENTER** button.
e.g) Setting up in **Level 6**.

RATING LEVEL
☐ Level 8 Adult
☐ Level 7
☑ Level 6
☑ Level 5
☑ Level 4
☑ Level 3
☑ Level 2
☑ Level 1 Kids Safe

ENTER RETURN MENU

◄ To make the setup menu disappear, press the MENU button.

For example, if you select up to Level 6, discs that contain Level 7, 8 will not play.

**Changing
Setup Menu**

Changing the Password

1

With the unit in Stop mode, press the **MENU** button.

2

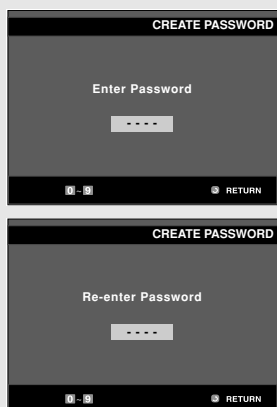Press the ▲/▼ buttons to select **Setup**, then press the ► or **ENTER** button.

Disc Menu	Language Setup ►
Title Menu	Audio Setup ►
	Display Setup ►
	Parental Setup : 🔒 ►
Function	DivX(R) Registration ►
Setup	EZ Setup ►
	● ENTER ● RETURN ● MENU

3

Press the ▲/▼ buttons to select **Parental Setup**, then press the ► or **ENTER** button.
The Enter Password screen appears.
Enter your password.

Disc Menu	Language Setup ►
Title Menu	Audio Setup ►
	Display Setup ►
	Parental Setup : 🔒 ►
Function	DivX(R) Registration ►
Setup	EZ Setup ►
	● ENTER ● RETURN ● MENU

4

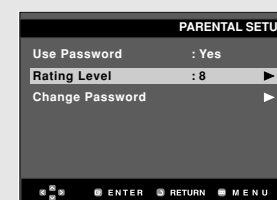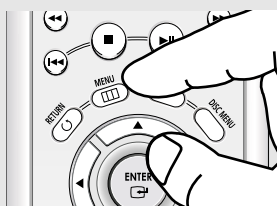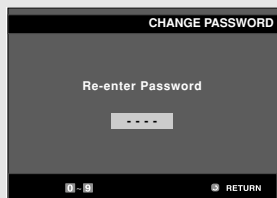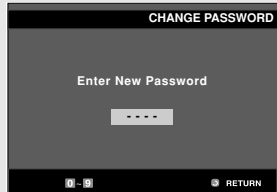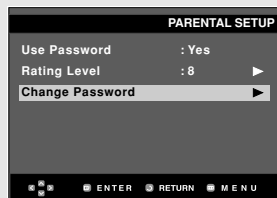Press the ▲/▼ button to select **Change Password**, then press the ► or **ENTER** button.
Enter your new password.
Re-enter the new password again.

PARENTAL SETUP

Use Password   : Yes
Rating Level   : 8 ►
Change Password   ►

● ENTER ● RETURN ● MENU

CHANGE PASSWORD

Enter New Password

- - - -

🔒 RETURN

CHANGE PASSWORD

Re-enter Password

- - - -

🔒 RETURN

◄ To make the setup menu disappear, press the MENU button.

Note
If you have forgotten your password, see "Forgot Password" in the Troubleshooting Guide.

Chapter 6

REFERENCE

Controlling a TV with the Remote control

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

TV Codes			
BRAND	**CODE**	**BRAND**	**CODE**
ANAM	10, 11, 12, 13, 14, 15, 16, 17, 18	NORDMENDE	72, 73
AIWA	82	NOKIA	74
BANG&OLUFSEN	57	PANASONIC	53, 54, 74, 75
BLAUPUNKT	71	PHILIPS	06, 55, 56, 57
BRANDT	73	PHONOLA	06, 56, 57
BRIONVEGA	57	PIONEER	58, 59, 73, 74, 75
CGE	52	RADIOLA	06, 56
CONTINENTAL EDISON	75	RADIOMARELLI	57
DAEWOO	19, 20, 23, 24, 25, 26, 27, 28, 29, 30 , 31, 32, 33, 34	RCA	45, 46
		REX	74
EMERSON	64	SABA	57, 72, 73, 74, 75
FERGUSON	73	SALORA	74
FINLUX	06, 49, 57	SAMSUNG	01, 02, 03, 04, 05, 06, 07, 08, 09
FORMENTI	57	SANYO	41, 42, 43, 44, 48
FUJITSU	84	SCHNEIDER	06
GRADIENTE	70	SELECO	74
GRUNDIG	49, 52, 71	SHARP	36, 37, 38, 39, 48
HITACHI	60, 72, 73, 75	SIEMENS	71
IMPERIAL	52	SINGER	57
JVC	61, 79	SINUDYNE	57
LG	06, 19, 20, 21, 22, 78	SONY	35, 48
LOEWE	06, 69	TELEAVA	73
LOEWE OPTA	06, 57	TELEFUNKEN	67, 73, 75, 76
MAGNAVOX	40	THOMSON	72, 73, 75
METZ	57	THOMSON ASIA	80, 81
MITSUBISHI	06, 48, 62, 65	TOSHIBA	47, 48, 49, 50, 51, 52
MIVAR	52, 77	WEGA	57
NEC	83	YOKO	06
NEWSAN	68	ZENITH	63
NOBLEX	66		

1. Turn on the TV.

2. Point the DVD's remote control at the TV.

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

4. If the TV turns off, setup is complete. Enter other codes of the same brand if the first code does not work.

You can control the TV POWER, CH (⌃, ⌄), VOL (+, -) and TV/VIDEO functions of another manufacturer's TV.
- The remote control may not be able to control every model TV of the brands listed.
- If you replace the remote control's batteries, set the brand code again.

e.g) For Samsung 2 TVs
While holding down the TV POWER button, enter 0 and then 1.

Reference

Firmware upgrade

Introduction
Samsung will often support the software upgrade to improve the performance of this unit to the latest status, through Samsung Internet Site (www.samsung.com).

Because the specially new MPEG4 codec continues and it is appearing. What improvements are made depends on the upgrade software you are using as well as the software that your DVD-player contained before the upgrade.

How to make an upgrade disc
Write the downloaded file onto a blank CD-R or CD-RW disc, using the following settings:

1

You have to download a new file through Download Center of Samsung Internet Site (www.samsung.com).

2

Write the file to Disc using CD-RW of your computer.

Note
- File System CD-ROM ISO Level
- Character set ISO 9660
- Finalized, single session
- Write speed low

Upgrade procedure

1

Open the disc tray.
Place the disc on the tray.
Close the tray.
The Firmware upgrade screen appears.

Firmware upgrade

Old Version : TRINO*178*040904
New Version : TRINO*178*041212

Cancel   Total

SAMSUNG DIGITall
everyone's invited

Firmware upgrade appears on the display

2

Press the ◄/► buttons to select **Total**, then press the **ENTER** button.

Firmware upgrade

Old Version : TRINO*178*040904
New Version : TRINO*178*041212

Cancel   Total

Now Loading...
CAUTION !!!
When the tray is opened
Do not turn off the player
until it goes off automatically

Firmware upgrade starts

◄ - In the middle of the writing, the tray will open automatically. After taking out the disc, please wait for about 2 minutes.

- If the unit was successfully updated, the unit will turn off and on after closing the tray automatically. When the unit turns on, this screen will display.

3

Press the number buttons to select the desired language.

SELECT MENU LANGUAGE

Press   1   for English
Touche   2   pour Français
Drücken Sie 3 für Deutsch
Pulsar   4   para Español
กด   5   สำหรับภาษาไทย

Note
- If the "Select Menu Language" doesn't appear, please contact to "Samsung Service Center".
- Do not press any button and unplug the power code during upgrade.
- The upgrade procedure may change, refer to the web site (www.samsung.com).

Troubleshooting

Before requesting service (troubleshooting), please check the following.

Problem	Action	Page
No operations can be performed with the remote control.	• Check the batteries in the remote control. They may need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote control to reset it. Reinstall batteries and try to operate the remote control again.	P4
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the DVD.	P7
5.1 channel sound is not being reproduced.	• 5.1 channel sound is reproduced only when the following conditions are met. : 1) The DVD player is connected with the proper Amplifier 2) The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "5.1 ch" mark on the outside. • Check if your audio system is connected and working properly. • In a SETUP Menu, is the Audio Output set to Bitstream?	P21 P61~62
The ⊘ icon appears on screen.	• The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	
Disc Menu doesn't appear.	• Check if the disc has a Menu.	
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P54~70
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your DVDs.	P65~66
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.	P61~62
The screen is blocked	• Press the ►►I button for more than 5 seconds under no disc inside. All settings will revert to the factory settings.	P22
Forgot password	• Press the ►►I button for more than 5 seconds under no disc inside. All settings including the password will revert to the factory settings. Don't use this unless absolutely necessary.	P68~70
If you experience other problems.	• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest authorized service center.	
The picture is noisy or distorted	• Make sure that the disc is not dirty or scratched. • Clean the disc.	P2

Reference

Problem	Action	Page
No HDMI output.	• Check the Video output is HDMI enabled. • Check the connection between the TV and the HDMI jack of DVD player. • See if the TV supports this 480p/576p/720p/768p/1080i DVD player.	P16~17, P67
Abnormal HDMI output screen.	• If snow noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).	P16~17
HDMI output Judder	• Check your TV system setup correctly. • The screen Judder phenomenon may occur when frame rate is converted from 50Hz to 60Hz for 720P/1080i HDMI (High Definition Multimedia Interface) Output. • Please refer to the user's manual of your TV.	P65~67

Specifications

General	Power Requirements	AC 110 - 240V ~ 60/50 Hz
	Power Consumption	14W
	Weight	2.3 Kg
	Dimensions	430mm (W) X 250mm (D) X 49mm (H)
	Operating Temperature Range	+5°C to +35°C
	Operating Humidity Range	10 % to 75 %
Disc	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 3.49 ~ 4.06 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12Cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min.
	CD : 8Cm (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 20 min.
	VCD : 12Cm	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min. (Video + Audio)
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
	Component Video	Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load)
	S-Video	Luminance Signal : 1.0 Vp-p (75 Ω load) Chrominance Signal : 0.3 Vp-p (75 Ω load)
	HDMI	576P/480p, 720p, 768p, 1080i
Audio Output	2 Channel	L(1/L), R(2/R)
	5.1 Channel	F/L, F/R, R/L, R/R, C/T, S/W
	Digital Audio Output	Optical/Coaxial
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.004 %

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications with out notice.

- Weight and dimensions are approximate.