# DVD Player

# user manual

# imagine the possibilities

Thank you for purchasing this Samsung product. To receive more complete service, please register your product at www.samsung.com/global/register



AK68-01765B(03)

# getting started

# **Important Safety Instructions**

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding- type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong.

The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10) Protect the power cord from being walked on or pinched; particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long peroids of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus. Service is also required if the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



# Precautions





This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Do not install this equipment in a confined space such as a bookcase or similar unit.

# **WARNING :** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

**Note to CATV system installer** : This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical. **Caution** : FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- If this power supply is used at 240V ac, a suitable plug adapter should be used.

#### FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.

The user is encouraged to try to correct the interference by one or more of the following measures.

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

#### **CALIFORNIA USA ONLY :**

This Perchlorate warning applies only to primary CR (Maganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA "Perchlorate Material - special handling may apply", See www. dtsc.ca.gov/hazardouswaste/perchlorate.

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

# getting started

#### CAUTION

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 COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

#### Note:

- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, the DVD player cannot play the disc.
- The product unit accompanying this user manual is licensed under certain intellectual property rights of certain third parties. In particular, this product is licensed under the following US patents: 5,060,220 5,457,669 5,561,649 5,705,762 5,987,417 6,043,912 6,222,983 6,272,096 6,377,524 6,377,531 6,385,587 6,389,570 6,408,408 6,466,532 6,473,736 6,477,501 6,480,829 6,556,520 6,556,521 6,556,522 6,578,163 6,594,208 6,631,110 6,658,588 6,674,697 6,674,957 6,687,455 6,697,307 6,707,985 6,721,243 6,721,493 6,728,474 6,741,535 6,744,713 6,744,972 6,765,853 6,765,853 6,771,890 6,771,891 6 775,465 6,778,755 6,788,629 6,788,630 6,795,637 6,810,201 6,862,256 6,868,054 6,894,963 6,937,552.

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/IEC 11172-3 or ISO/IEC 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/IEC 11172-3 or ISO/IEC 13818-3. No rights are granted under this license for product features or functions that do not conform to the ISO/IEC 11172-3 or ISO/IEC 13818-3.

#### Handling Cautions

- Before connecting other components to this player, be sure to turn them all off.
- Do not move the player while a disc is being played, or the disc may be scratched or broken, and the player's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the player.
- · Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference 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.
- Be sure to remove the disc and turn off the player after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the player for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.
- The Main plug is used as a disconnect device and shall stay readily operable at any time.

#### Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.

#### Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

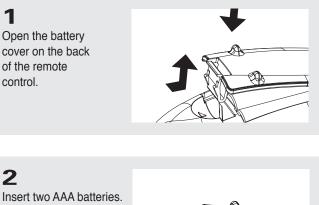
- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

# Before you start

#### Accessories



#### Install Batteries in the Remote control

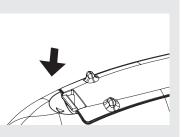


Insert two AAA batteries Make sure that the polarities (+ and -) are aligned correctly.



## 3

Replace the battery cover.



#### If the remote control doesn't operate properly:

- Check the polarity + of the batteries.
- Check if the batteries are drained.
- Check if the remote control sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

#### **GETTING STARTED**

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# GETTING STARTED

# **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.

## 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.

## 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.

#### Note

- Discs which cannot be played with this player.
- DVD-ROM
   · DVD-RAM
- CD-ROM · CDV
- CDI
   CVD
- Super Audio CD(except CD layer)
- CDGs play audio only, not graphics.
- Ability to play back may depend on recording conditions.
- DVD-R, +R
- 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.

# getting started

# **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	Audio + Video	12 Cm	Single-sided 240 min. Double-sided 480 min.	<ul> <li>DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system.</li> <li>Various screen and audio functions can</li> </ul>
VIDEO		8 Cm	Single-sided 80 min. Double-sided 160 min.	be easily selected through the on-screen menu.
	Audio	12 Cm	74 min.	<ul> <li>CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.</li> </ul>
		8 Cm	20 min.	

#### **Disc Markings**

	Play Region Number
NTSC	NTSC broadcast system in U.S.A, Canada, Korea, Japan, etc.
	Dolby Digital disc
STEREO	Stereo disc
DIGITAL SOUND	Digital Audio disc
Digital Out	DTS disc
	MP3 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.

# Description

#### **Front Panel Controls**



#### 1. POWER ON/OFF (৩)

Turn On/Off and the player is turned On/Off.

- 2. DISC TRAY Place the disc here.
- 3. **DISPLAY** Operation indicators are displayed here.

#### Front Panel Display

- OPEN/CLOSE ( ▲ )/ STOP Press to open and close the disc tray/ Stops disc play.
- 5. PLAY/PAUSE ( ► ) Begin or pause disc play.

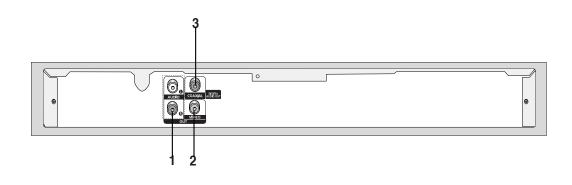


# Displays the Total playing time and various messages concerning operations such as PLAY, STOP, LOAD...

NOdISC: No disc loaded. OPEn: The disc tray is open. LOAd: Player is loading disc information.

# getting started

#### **Rear Panel**



#### 1. AUDIO OUT JACKS

Use audio cables to connect to the Audio input jacks of your television or audio/video receiver

#### 2. VIDEO OUT JACK

- Use a video cable to connect to the Video input jack on your television.

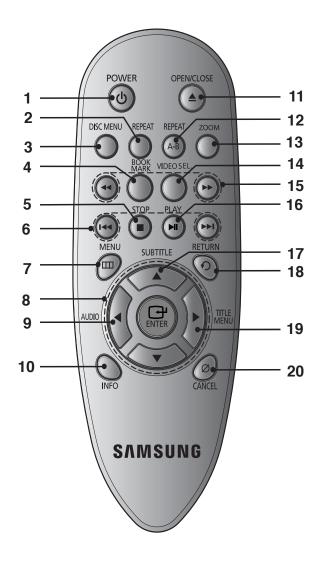
#### 3. DIGITAL AUDIO OUT JACKS

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

#### Note

- See pages 42 ~ 43 to get more information on how to use the setup menu.

# **Tour of the Remote Control**



1. DVD Power Button Turns the power on/off.

#### 2. REPEAT Button

Allows you to repeat play a title, chapter, track, or disc. Returns to a previous menu.

3. DISC MENU Button Brings up the Disc menu.

#### 4. BOOKMARK Button

Quickly find bookmark sections of a DVD.

- STOP Button (■)
   Use to stop playback.
- SKIP Buttons (I◄ / ►) Use to skip the title, chapter or track.
- 7. MENU Button Brings up the DVD player's menu.
- ENTER/▲/▼, ◄/► Buttons
   This button functions as a toggle switch.
- 9. AUDIO Button

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

10. INFO Button

Displays the current disc mode.

- OPEN/CLOSE (▲) Button
   To open and close the disc tray
- 12. REPEAT A-B Button Allows you to repeat A-B disc.
- **13. ZOOM Button** Enlarge DVD Picture
- 14. VIDEO SEL.Button

This function is not available for this DVD player

15. SEARCH Buttons ( ◀ / ▶)

Allow you to search forward/backward through a disc.

- PLAY/PAUSE Button ( ▶ II ) Begin/Pause disc play.
- **17. SUBTITLE Button** Use to change subtitle.

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18. RETURN Button

Returns to a previous menu.

- **19. TITLE MENU Button** Brings up the Title menu.
- 20. CANCEL Button

Use to remove menus or status displays from the screen.

# <u>connections</u>

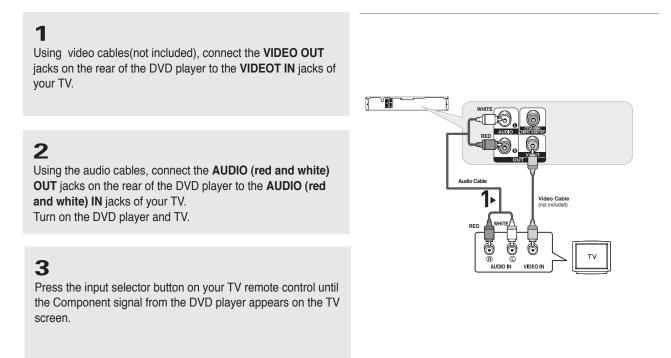
# **Choosing a Connection**

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 devices before you connect or disconnect any cables.
- Refer to the user's manual of the additional devices (such as a TV) you are connecting formore information on those particular devices.

#### Connecting to a TV (For Video)



#### 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 13 to 14)
- The number and position of the jacks 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) jack of the DVD player.

#### Connecting to an Audio System (2 Channel Amplifier)

#### 1

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

# 2

Using the video signal cable(s), connect the **VIDEO** jacks on the rear of the DVD player to the **VIDEO** jacks of your TV as described on pages 12 to 16.

# 3

Turn on your DVD player, TV, and Amplifier.

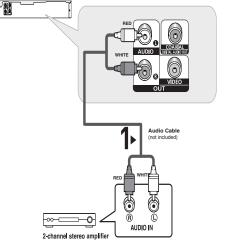
## 4

Press the input select button of the Amplifier to select the audio input your DVD player is connected to in order to hear sound.

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 40 to 41)
- The position of jacks may vary depending on the Amplifier. Please refer to the user's manual of the Amplifier.



CONECTIONS

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# connections

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

## 1

If using a Coaxial cable(not included), connect the **DIGITAL AUDIO OUT (COAXIAL)** jack on the rear of the DVD player to the **DIGITAL AUDIO IN (COAXIAL)** jack of the Amplifier.

## 2

Using the video signal cable(s), connect the **VIDEO** jacks on the rear of the DVD player to the **VIDEO** jacks of your TV as described on pages 12 to 14.

# 3

Turn on your DVD player, TV, and Amplifier.

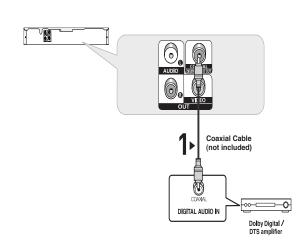
## 4

Press the input select button of the Amplifier to select the audio input your DVD player is connected to in order to hear sound.

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 you have connected. (See pages 40 to 41)
- The position of jacks may vary depending on the Amplifier. Please refer to the user's manual of the Amplifier.



# basic functions

# **Playing a Disc**

#### **Before Play**

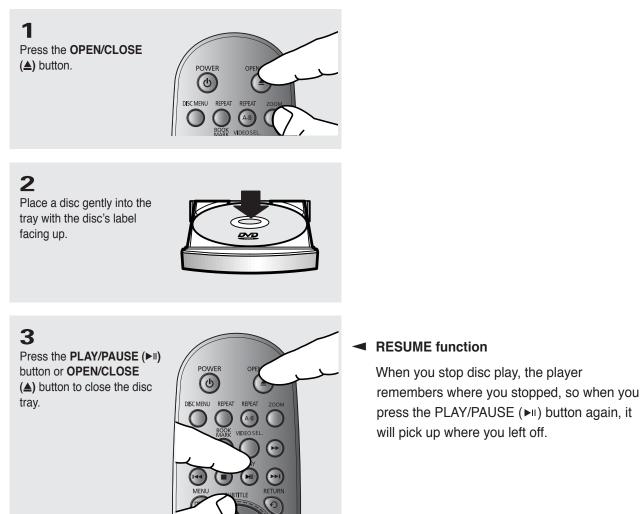
- Turn on your TV and set it to the Video Input your DVD player is connected to with your TV's remote control.
- If you connected the DVD player to an external Audio System, turn on your Audio System and set it to the correct Audio Input.

After plugging in the player, the first time you press the DVD POWER button, the screen to the right appears: If you want to select a language, press a  $\blacktriangle/\nabla$  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.

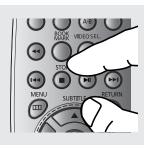
Once you select a menu language, you can change it by pressing the ▶∎ button on the front panel of the unit for more than 5 seconds with no disc in the unit. Then the SELECT MENU LANGUAGE window appears again where you can reset your preferred language.

ELECT MENU LANGUAGE English Deutsch Español Italiano

#### Playback



# basic functions



#### Note

- If the player is left in the stop mode for more than one minute without pressing any buttons, 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.



4

**Stopping Play** 

during play.

Press the STOP (
) button



6 Pausing Play Press the PLAY

Press the **PLAY/PAUSE** (**►**II) button on the remote control during play.



 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.

 No sound is heard during slow mode.
 Press the PLAY/PAUSE (>I) button to resume normal play.

#### Note

- The ( $\oslash$ ) icon indicates an invalid button press.
- This player does not play HD DVDs or Blu-Ray discs.

# 7

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



# **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, press the SEARCH (◀ or ►) button on the remote control for more than 1 second.



If you want to search at a faster speed on the DVD or CD, press and hold the button.

DVD	2X, 4X, 64X, 128X
CD	2X, 4X, 8X

#### Note

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

#### **Skipping Tracks**

(I or ►) button.



#### Note

- The speed marked in this function may be different from the actual playback speed.
- No sound is heard during search mode (Except CD).
- When playing a DVD, if you press the SKIP (►) button, it moves to the next chapter. If you press the SKIP (➡) button, it moves to the beginning of the chapter. Pressing the Skip button twice makes the DVD move to the beginning of the previous chapter.
- When playing a CD, if you press the SKIP (►) button, it moves to the next track. If you press the SKIP (M) button, it moves to the beginning of the track. Pressing the Skip button twice makes the DVD move to the beginning of the previous track.

# basic functions

# **Using the Display Function**

#### When Playing a DVD

1

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



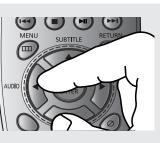
## 2

Press the  $\blacktriangle/\Psi$  buttons to select the desired item.



# 3

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



# 4

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



# BASIC FUNCTIONS

#### Note

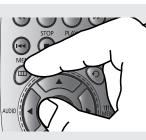
Title	To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified.
Chapter Chapter	Most DVD discs are recorded in chapters so that you can quickly find a specific passage (similar to tracks on an audio CD).
() 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. A DVD disc can have up to eight different soundtracks.
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.
Shortcut	To access the desired Bookmark, Angle or EZ View function. Some DVD discs are have more than one recorded angle. The Bookmark function lets you quickly and easily find a track or chapter on a DVD. The EZ View function is used to change the aspect ratio on a DVD.

# **Using the Disc and Title Menu**

#### Using the Disc Menu

#### 1

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



# 2

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



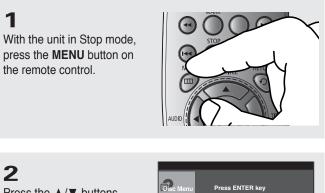
#### Note

- Depending on a disc, the Disc Menu may not work.
- You can also select the Disc Menu, using the DISC MENU button on the remote control.

# basic functions

#### **Using the Title Menu**

1



to select Title Menu, then

Bisc Menu Fitle Menu		ENTER key lie Menu	
K N	Enter	Return	🗐 Menu

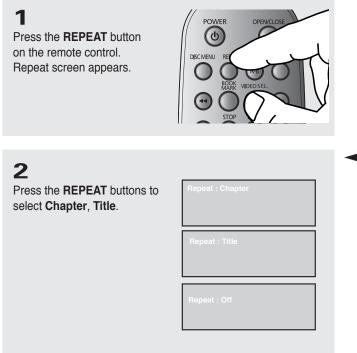
#### Note

- 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.

# **Repeat Play**

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

#### When playing a DVD



 A DVD repeats play by chapter or title. Chapter : repeats the chapter that is playing. Title : repeats the title that is playing.

2 Press the ▲/▼ buttons press the ► or ENTER button.

#### Using the A-B Repeat function

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

<b>3</b> To return to normal play, press CANCEL button.	DVD Repeat A-
	Repeat A-B

#### Note

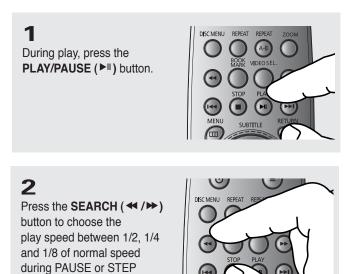
- Depending on the disc, the Repeat function may not work.

# **Slow Play**

mode.

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



# advanced functions

# Adjusting the Aspect Ratio (EZ View)

The Aspect ratio is the relation between the width and height of a picture. The two most common are 4:3 (Standard) and 16:9 (Widescreen). Follow the instructions below for the best aspect ratio setting for your TV.

#### Changing the aspect ratio (DVD)

- During play, press the **INFO** button on the remote control.
- Press the ▲/▼ buttons to select Shortcut.
- Press the ◄/► buttons to select EZ VIEW , then press the ENTER button.
- Press the ◄/► buttons to select the desired item.

WIDE SCREEN EZVIEW		
	REEN	EZVIEW

 To make the aspect ratio bar disappear, press the CANCEL 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.

#### 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.

#### Note

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

#### 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.

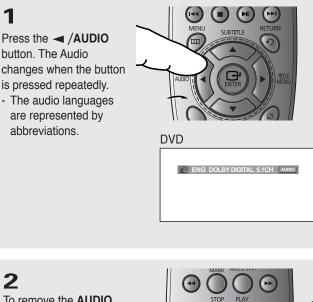
# dvanced functions

# Selecting the Audio Language

You can select a desired audio language available on a disc quickly and easily with the </ button.

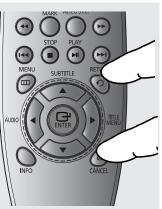
# Using the AUDIO button (DVD)





2

To remove the AUDIO icon from the screen, press the CANCEL or **RETURN** button.



#### Note

- This function depends on audio languages that are encoded on the disc. This function may not work with all DVDs.
- 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 38.

# Selecting the Subtitle Language

You can select a desired subtitle quickly and easily with the </

# Using the SUBTITLE button (DVD)

#### 1

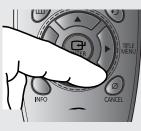
Press the ▲ /SUBTITLE button. The subtitle changes when the ◄/► button are pressed. The subtitle languages are represented by abbreviations.





# 2

To remove the **SUBTITLE** icon from the screen, press the **CANCEL** or **RETURN** button.





#### Note

- Depending on the DVD, you may have to select the desired subtitle in the DVD's Disc Menu. Press the DISC MENU button.
- This function depends on what subtitles are encoded on the disc. This function may not work with 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 39.

# advanced functions

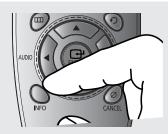
# **Changing the Camera Angle**

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

## Using the ANGLE function (DVD)

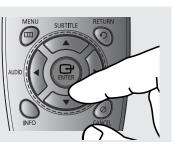
If the disc contains multiple angles, the ANGLE mark appears on the screen.

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



2

Press the ▲/▼ buttons to select **Shortcut**.



# 3

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



# 4

Press the **◄/**► buttons on the remote control to select the desired angle.



#### Note

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

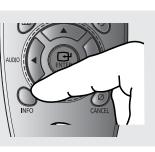
# **Using the Bookmark Function**

This feature lets you bookmark sections of a DVD, so you can quickly find them at a later time.

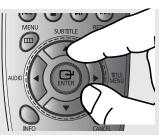
# Using the Bookmark Function (DVD)

#### 1

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



2 Press the ▲/▼ buttons to select Shortcut.



## 3

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



# 4

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



#### Note

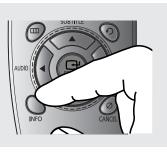
- Depending on the disc, the Bookmark function may not work.

# advanced functions

## **Recalling a Marked Scene**

## 1~3

The first 1~3 steps are the same as those for "Using the Bookmark Function" on page 27.



1 2 3 ↔ M CANCEL

## 4

Press the ◀/► buttons to select a marked scene.



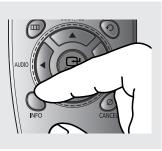
Press the **PLAY/PAUSE** (**▶II**) button to skip to the marked scene.



# **Clearing a Bookmark**

# 1~3

The first 1~3 steps are the same as those for "Using the Bookmark Function" on page 27.



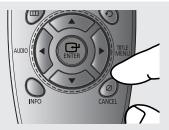
# 4

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



# 5

Press the **CANCEL** button to delete a bookmark number.



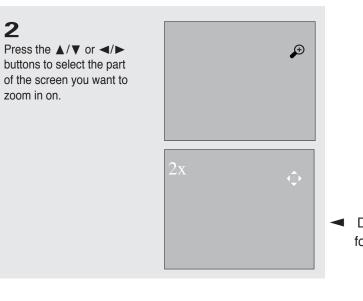
# **Using the Zoom Function**

# Using the Zoom Function (DVD)

## 1

During play or pause mode, press the **ZOOM** button on the remote control. Press the ENTER button.

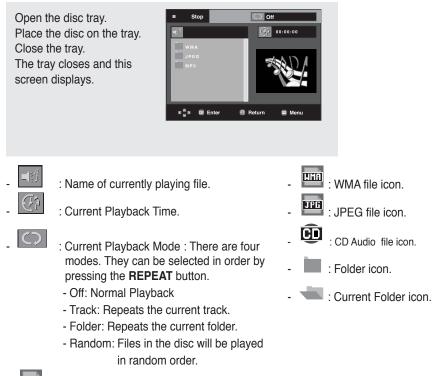




# advanced functions

# Clips Menu for MP3/WMA/JPEG/CD Audio

CD Audio or discs with MP3/WMA/JPEG contain individual songs and/or pictures that will be organized into folders on this unit as shown below. They are similar to how you use your computer to put files into different folders.

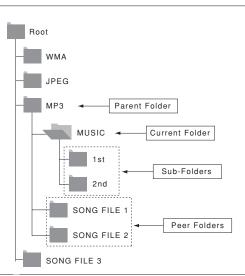


```
- IP3 : MP3 file icon.
```

# **Folder Selection**

The folder can be selected in Stop or Play 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 select the desired folder, then press ENTER.
- To select the Sub-Folder
   Press the ▲/♥ buttons to select the desired folder, then press ENTER.



# MP3/WMA/CD Audio Playback



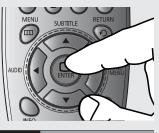
# 2

1

Open the disc tray. Place the disc on the tray.

Close the tray.

Press the ▲/▼ buttons to select a song file. Press ENTER to begin playback of the song file.

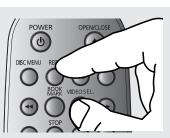




# Repeat/Random playback

# 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 **CANCEL** button.

# advanced functions

#### CD-R MP3/WMA file

When you record MP3 or WMA files on a CD-R for playback in this unit, 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:  $(.,/,\backslash,=,+)$ .

- 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.

The sampling rate that can be supported for WMA files is  $\ensuremath{\mathsf{>30}\text{-Khz}}$ 

 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 500 files and 500 folders per disc.

# **Picture CD Playback**

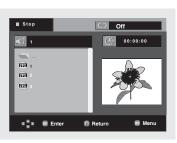
**1** Select the desired folder.





# 2

Press the  $\blacktriangle/\checkmark$  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

- 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



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

#### Zoom

Cress the ▲/▼ 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 2X.

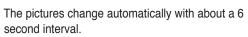
#### Slide Show

- The unit enters slide show mode.
- Before beginning the Slide Show, the picture interval must be set.

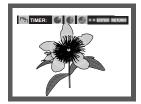
#### Note

- Depending on the 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.





- The pictures change automatically with about a 12 second interval.
- The pictures change automatically with about a 18 second interval.



# advanced functions

## 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 500 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 500, only the first 500 JPEG files can be played.
- If the number of folders in 1 Disc is over 500, only the first JPEG files in 500 folders can be played.

# navigating the setup menu

# **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, and even adjust the player to the type of television screen you have.



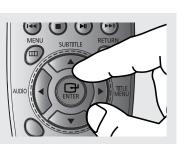
- Language Setup : Setup of the Language.
- Audio Setup : Setup of the Audio Options.
- Obisplay Setup :Setup of the Display Options. Use to select which type of screen you want to watch and several display options.
- Parental Setup : Setup of the Parental Level. Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.



Press the  $\blacktriangle/\checkmark$  buttons to access the different features. Press the  $\blacktriangleright$  or **ENTER** button to access the sub features.

3

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





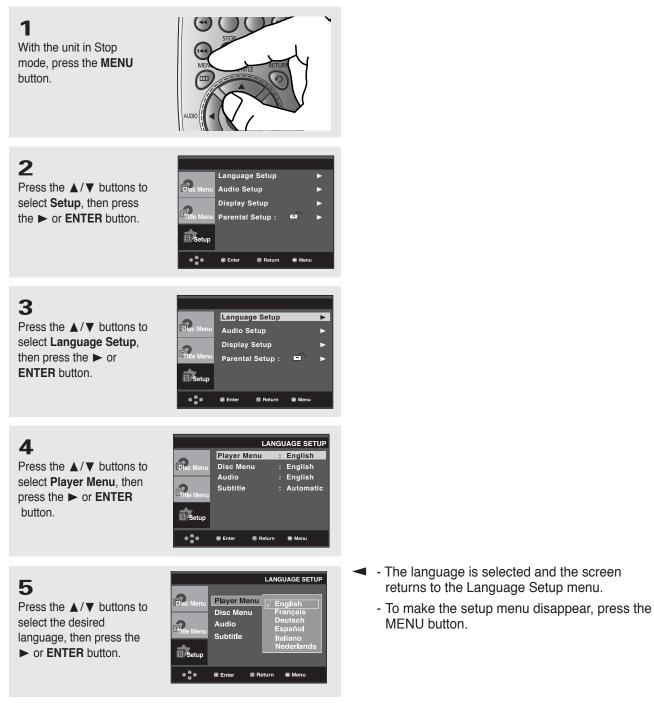
Note Depending on the disc, some Setup menu selections may not work.

# navigating the setup menu

# 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.

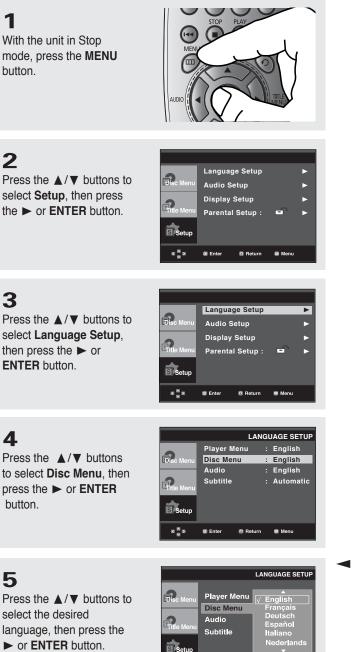
# Using the Player Menu Language



# NAVIGATING THE SETUP MENU

# Using the Disc Menu Language

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



K N N

Enter

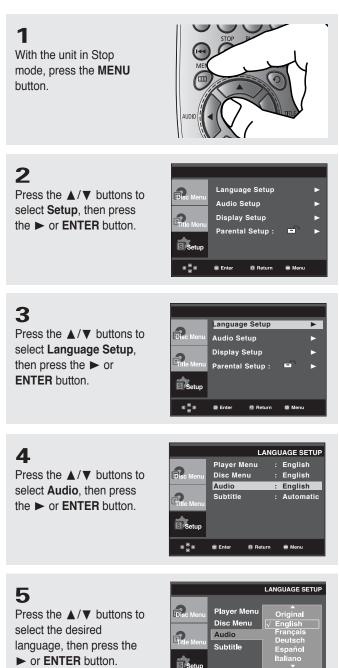
Return

. ■ M

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

# navigating the setup menu

#### Using the Audio Language



K 🗄 K

Enter

Return

💷 Me

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

- 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 the Language Setup menu.

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

#### Using the Subtitle Language

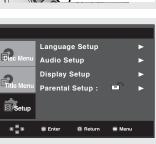


With the unit in Stop mode, press the **MENU** button.



# 2

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





	Languag	ge Setup		►
Disc Menu	Audio S	etup		►
2	Display	Setup		►
Fitle Menu	Parenta	I Setup:	-	►
Setup				
K N N	Enter	Return	🔳 Menu	

#### 4

Press the  $\blacktriangle/\checkmark$  buttons to select **Subtitle**, then press the  $\blacktriangleright$  or **ENTER** button.

		LANG	λ	JAGE SETUP
	Player M	enu		English
Disc Menu	Disc Mer	าน		English
	Audio			English
Pitle Menu	Subtitle	_	:	Automatic
Setup				
K	Enter	B Return		📼 Menu

## 5

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

		LANGUAGE SETUP
Eisc Menu Fille Menu	Player Menu Disc Menu Audio Subtitle	▲ ↓ Automatic English Français Deutsch Español Italiano ▼
K	Enter      Re	sturn 📼 Menu

- Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio language.
  - Some discs may not contain the language you select ; in that case the disc will use its original language setting.
  - The language is selected and the screen returns to the setup menu.
  - To make the setup menu disappear, press the MENU button.

# navigating the setup mer

#### Setting Up the Audio Options

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







-	Languag	je Setup		►
Disc Menu	Audio S	etup		►
<b>a</b>	Display	Setup		►
L⊐Title Menu	Parental	Setup :	Ē	►
Setup				
K # N	Enter	Return	🔳 Menu	
Setup	Parental	Setup :		•

## 3

1

button.

Press the  $\blacktriangle/\nabla$  buttons to select Audio Setup, then press the ► or ENTER button.

	Langua	ge Setup		►
Disc Menu	Audio S	Setup		►
-	Display	Setup		►
Fitle Menu	Parenta	I Setup :	-	►
Setup				
K	Enter	Return	🎟 Menu	

## 4

Press the  $\blacktriangle/\lor$  buttons to select the desired item, then press the ► or ENTER button.

			AUDIO SETUP
<b>Disc</b> Menu	Dolby Digit MPEG-2 Dig		: PCM : PCM
Entle Menu	Dynamic Co PCM Down Power On I		: On : On : On
K	Enter	Return	🛢 Menu

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

The following describes each option found in the Audio Setup Menu.

Dolby Digital Out

- PCM : Converts to PCM(2CH) audio.
- Bitstream : Outputs Dolby Digital via digital output.

Select Bitstream when connecting to a Dolby Digital Decoder.

#### Note

There is analog audio output when you play a DTS sound disc

- MPEG-2 Digital Out
  - PCM : Converts to PCM(2CH) audio.
  - Bitstream : Converts to MPEG-2 Digital Bitstream (5.1CH). Select Bitstream when using the

Digital Audio Output.

#### Optimic Compression

- On : To select dynamic compression.
- Off : To select the standard range.
- 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.

#### Power On Music

- On : To turn On Start up music.
- Off : To turn Off Start up music.

#### Note

Even when PCM Down sampling is Off

- Some discs will only output down-sampled audio through the digital outputs.
- To make the Setup menu disappear, press the MENU button.

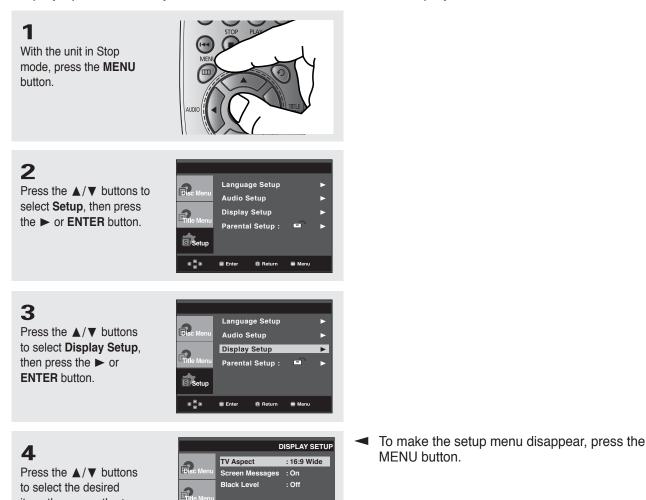
Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

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

# navigating the setup menu

#### **Setting Up the Display Options**

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



Setu

K 🗖 N

Enter

🖸 Return 🛛 🔳 Menu

42\_Navigating the Setup Menu

item, then press the ► or

ENTER button.

The following describes each option found in the Display Setup Menu.

#### 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.



#### Screen Messages

Use to turn on-screen messages On or Off.

#### Black Level

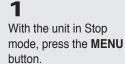
Adjust the brightness of the screen. (On or Off) It does not function in PAL or Auto mode.

# navigating the 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.

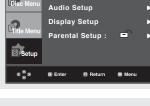
## Setting Up the Rating Level





# 2

Press the  $\blacktriangle/\lor$  buttons to select **Setup**, then press the  $\blacktriangleright$  or **ENTER** button.



Language Setup

# 3

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



# 4

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



#### 5

Enter your password. Press the ▲/♥ buttons then press the ENTER button. By default, the password is set to 0000. Please change the password to other than 0000 to activate the parental control function.



## 6

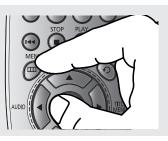
Press the ▲/▼ buttons to select the Rating Level you want, then press the ▶ or ENTER button. e.g) Setting up in Kids Safe.

Rating Level     ▲       Change Passwor     ✓ Kids Safe       Level 3     Level 3       Level 5     Level 5       Setup     ● Enter     ● Retron		I	PARENTAL SETUP
	_		Level 2 Level 3 Level 4 Level 5
	Setup	B Enter D Detu	

# **Changing the Password**

#### 1

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



# 2

Press the  $\blacktriangle/ \lor$  buttons to select **Setup**, then press the  $\blacktriangleright$  or **ENTER** button.



# 3

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

Langua	age Setun		
		<b>–</b>	
		_	
Enter	Return	🔳 Menu	
	Audio S Display Parenta	Language Setup Audio Setup Display Setup Parental Setup :	Audio Setup Display Setup Parental Setup :

#### 4

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



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

For example, if you select the Kids Safe level, discs that contain level 2 or higher will not play.

NAVIGATING THE SETUP MENU

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

#### Note

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

## Firmware upgrade

#### Introduction

Upgrading the Firmware will keep your DVD player up to date.

The latest firmware version for this unit is provided on the Samsung Website.(www.samsung.com).

#### How to make an upgrade disc

You must burn the latest firmware version onto a blank CD-R or CD-RW disc:

- You have to download a new file through Samsung's Download Center. (www.samsung.com).
- 2. Write the file to Disc using the CD-RW drive of your computer.

#### Note

The CD should be burned following specs below.

- File System CD-ROM ISO Level.
- Character set ISO 9660.
- The burned CD has to be Finalized.
- Please burn the CD at a low speed.

#### Upgrade procedure

1. Open the disc tray of your DVD-P190. Place the burned disc on the tray. Close the tray. The Firmware upgrade screen will appear.



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



Firmware upgrade starts

- During the firmware upgrade process, the tray will open.

Please remove the disc and wait for about 2 minutes.

- If the DVD player was successfully updated, the disc tray will close and the unit will turn off and on.

When the unit turns on, the Select Menu Language screen will appear.

3. Press the number buttons to select the desired language.

SELECT MENU LANGUAGE	
English Français Deutsch	
Español Italiano Nederlands	

#### Note

- If the "Select Menu Language" doesn't appear, please contact Samsung Customer Service. (see page 49)
- Do not press any button or unplug the power cord during the upgrade.
- The upgrade procedure may change, refer to the web site (www.samsung.com).

# Troubleshooting

Before requesting service, please check the following.

Problem	Action	Page
No operations can be performed with the remote control.	performed with the • Operate the remote control at a distance of no more than 20 feet.	
Disc does not play.	<ul> <li>Ensure that the disc is installed with the label side facing up.</li> <li>Check the region number of the DVD.</li> </ul>	P8
The ⊘ icon appears on screen.	<ul> <li>The features or action cannot be completed at this time because:</li> <li>1. The DVD's software restricts it.</li> <li>2. The DVD's software doesn't support the feature (e.g., angles).</li> <li>3. The feature is not available at the moment.</li> <li>4. You've requested a title or chapter number or search time that is out of range.</li> </ul>	
Disc Menu doesn't appear.	Check if the disc has a Menu.	
Play mode differs from the Setup Menu selection.	<ul> <li>Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.</li> </ul>	P35
The screen ratio cannot be changed.	The Screen Ratio is fixed on your DVDs.	P42~43
No audio.	<ul> <li>Make sure you have selected the correct Digital Output in the Audio Options Menu.</li> </ul>	P40~41
The screen is blocked	<ul> <li>Press the          ■ button (on the front panel) for more than 5 seconds with no disc inside. All settings will revert to the factory settings.     </li> </ul>	P15
Forgot password	<ul> <li>Press the &gt;ubutton (on the panel) for more than 5 seconds with no disc inside. All settings including the password will revert to the factory settings. Don't use this unless absolutely necessary.</li> </ul>	P44
If you experience other problems.	<ul> <li>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.</li> <li>If the problem still cannot be solved, please contact your nearest Samsung authorized service center.</li> </ul>	
The picture is noisy or distorted	<ul><li>Make sure that the disc is not dirty or scratched.</li><li>Clean the disc.</li></ul>	P4

# advanced functions

#### Specifications

<u>г</u>		
	Power Requirements	AC 120 V ~ 60 Hz
	Power Consumption	8 W
0	Weight	2.9 lbs
General	Dimensions	14,4" (W) X 8"(D) X 1,48" (H)
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 3.49 ~ 4.06 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
Disc	CD : 5" (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min.
	CD : 3 1/2" (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 20 min.
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
	2 Channel	L(1/L), R(2/R)
	* Maximum Output level	2 Vrms
Audio Output	Output Terminal	RCA
Γ	Digital Audio output	Coaxial (S/PDIF)
	*Frequency Response	20Hz ~ 20Khz

\*: Nominal specification

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

- Weight and dimensions are approximate.

#### Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Region	Country	Contact Center 🖀	Web Site
	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca
North America	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com/mx
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com/us
	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421, 4004-0000	www.samsung.com/br
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	www.samsung.com/latin
	HONDURAS	800-7919267	www.samsung.com/latin
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
_atin America	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA PANAMA	1-800-234-7267 800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com/latin
	VENEZUELA	0-800-100-5303	www.samsung.com/latin
	COLOMBIA	01-8000112112	www.samsung.com.co
	BELGIUM	02 201 2418	www.samsung.com/be
	CZECH REPUBLIC	800-726-786 (800 - SAMSUNG)	www.samsung.com/cz
	DENMARK	70 70 19 70	www.samsung.com/dk
	FINLAND	030-6227 515	www.samsung.com/fi
	FRANCE	3260 SAMSUNG (€ 0,15/Min) 08 25 08 65 65 (€ 0,15/Min)	www.samsung.com/fr
	GERMANY	01805 - SAMSUNG(726-7864 € 0,14/Min)	www.samsung.de
	HUNGARY	06-80-SAMSUNG(726-7864)	www.samsung.com/hu
	ITALIA	800-SAMSUNG(726-7864)	www.samsung.com/it
	LUXEMBURG	02 261 03 710	www.samsung.com/lu
Europe	NETHERLANDS	0900-SAMSUNG (726-7864 € 0,10/Min)	www.samsung.com/nl
	NORWAY	815-56 480	www.samsung.com/no
	POLAND	0 801 801 881, 022-607-93-33	www.samsung.com/pl
	PORTUGAL	80820-SAMSUNG(726-7864)	www.samsung.com/pt
	SLOVAKIA	0800-SAMSUNG(726-7864)	www.samsung.com/sk
	SPAIN	902-1-SAMSU(72678)	www.samsung.com/es
	SWEDEN	0771-400 200	www.samsung.com/se
	U.K	0845 SAMSUNG (7267864)	www.samsung.com/uk
	EIRE	0818 717 100	www.samsung.com/ie
	AUSTRIA	0800-SAMSUNG(726-7864)	www.samsung.com/at
	SWITZERLAND	0800-SAMSUNG(726-7864)	www.samsung.com/ch
	RUSSIA	8-800-555-55-55	www.samsung.ru
	KAZAKHSTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
	UZBEKISTAN	8-10-800-500-55-500	www.samsung.com/kz_ru
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		8-10-800-500-55-500	
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	NEW ZEALAND	0800 SAMSUNG (0800 726 786)	www.samsung.com/nz
	CHINA	800-810-5858, 400-810-5858, 010-6475 1880	www.samsung.com/cn
	HONG KONG	3698-4698	www.samsung.com/hk
Asia Pacific	INDIA	3030 8282, 1800 110011, 1-800-3000-8282	www.samsung.com/in
	INDONESIA	0800-112-8888	www.samsung.com/id
	JAPAN	0120-327-527	www.samsung.com/jp
	MALAYSIA	1800-88-9999	www.samsung.com/my
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	SINGAPORE	1800-SAMSUNG(726-7864)	www.samsung.com/sg
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	TAIWAN	0800-329-999	www.samsung.com/tw
	VIETNAM	1 800 588 889	www.samsung.com/vn
	TURKEY	444 77 11	www.samsung.com/tr
Viddle East & Africa	SOUTH AFRICA	0860-SAMSUNG(726-7864)	www.samsung.com/za
/ 11100	U.A.E	800-SAMSUNG (726-7864), 8000-4726	www.samsung.com/ae

#### LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS AMERICA, INC. (SAM-SUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for the following limited warranty period:

#### One (1) Year Parts / Ninety days (90) Labor

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States, and does not include transportation, installation, removal or reinstallation. Warranty repairs must be performed by SAMSUNG's authorized service center. To receive warranty service, the original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge with new or reconditioned parts, if found to be defective during the limited warranty period specified above. The product must be returned during the warranty period with transportation charges prepaid to SAMSUNG's designated service center. Prior to returning any product for warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. SAM-SUNG does not warrant uninterrupted or error-free operation of the product. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following, including, but not limited to: damage which occurs in shipment; applications and uses for which this product was not intended; failures or problems which are caused by products or equipment not supplied by SAMSUNG; accidents, misuse, abuse, neglect, misapplication, fire, water, light-ning or other acts of nature; incorrect electrical line voltage, fluctuations or surges; damage caused by improper or faulty installation; improper connection with any peripheral; product alteration or modification; improper or unauthorized repair; cosmetic damage or exterior finish; product with altered serial numbers; failure to follow operating instructions, customer adjustments, maintenance and environmental instructions that are covered and prescribed in the instruction book; use of non-SAMSUNG or unauthorized parts, supplies, accessories or equipment which damage this product or result in service problems; failures or problems due to incompatibility with other equipment.



Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center. T-800-SAMSUNG (7267864)/www.samsung.com

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