



ELECTRONICS



DVD PLAYER
DVD-P200
DVD-P210

Safety Precautions

Precautions

1. Before Operating Your Unit

Make sure that your power supply is of the type indicated on a sticker on the body of this unit. Install this unit (in a well ventilated place with at least 7 cm on the top and 10 cm on the left, right, and at the back of this unit). Do not obstruct the ventilation holes. Do not place any objects on the top of this unit. Do not place other appliances (including amplifiers) that produce heat on the top of this unit. Be sure to remove the disc when moving this unit. This unit is designed for continuous use. The power plug should be unplugged from the outlet when left unused for a long period of time.

2. Caution

Install this unit away from moisture, heat sources, and places exposed to strong magnetic or electric fields. Disconnect the power cable from the main electricity supply when the unit malfunctions. Your DVD player is intended not for industrial use, but for domestic use only. This product is for personal use only. When condensation forms inside the player or on the surface of the disc due to sudden temperature changes from cold to hot, the player may not operate correctly. If this occurs, leave the player at room temperature for about 2 hours or until the player becomes operational.

3. Warning

Never disassemble the main unit in any way. This is harmful to body as well as to your DVD player. Electric shock or exposure to an invisible laser beam may result. Do not look inside the DVD player as this is hazardous to your eyes.

4. Batteries

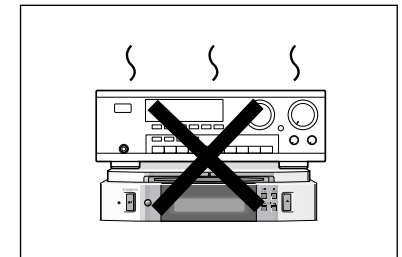
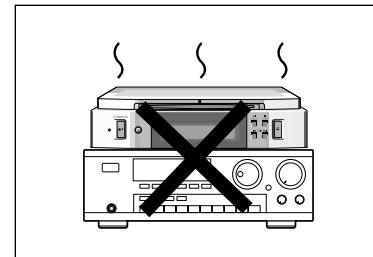
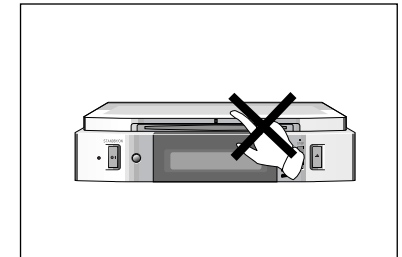
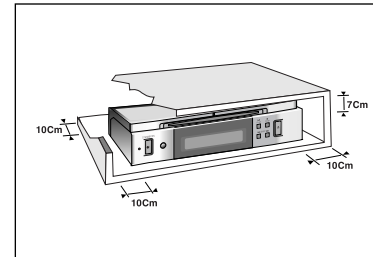
The batteries used in the remote control contain the chemicals that are harmful to the environment. Do not dispose of batteries in the general household waste.

5. Handling the Main Unit

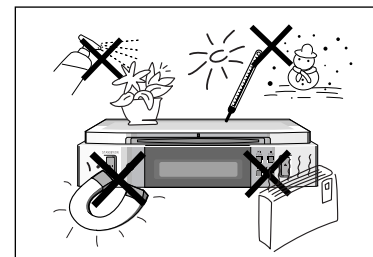
For safety reasons, be sure to disconnect the power plug from the outlet.

- Do not use benzene or other solvents when cleaning.
- Wipe the main unit with a soft cloth.

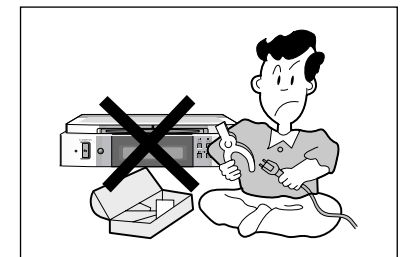
1



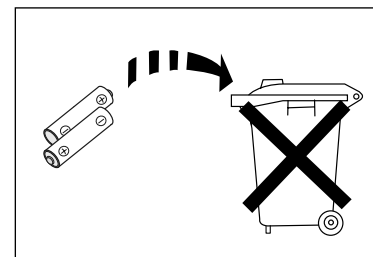
2



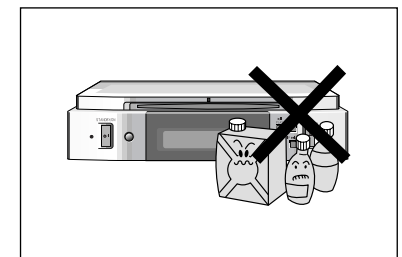
3



4



5



Before Operating Your Unit

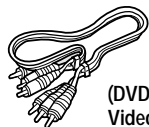
Accessories



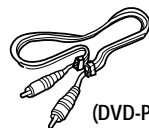
Remote Control



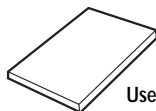
Batteries for Remote Control



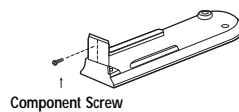
(DVD-P200) Video/Audio Cable



(DVD-P210) Video Cable



User's Manual



Component Screw

Stand

Installing Batteries in the Remote Control

- 1 Open the battery cover on the back of the remote control.
- 2 Insert two batteries. Make sure that the polarities (+ and -) are aligned correctly.
- 3 Replace the battery cover.

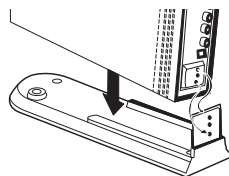
If the Remote Control Does Not Operate Properly:

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

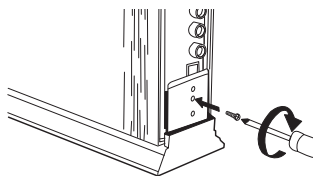
Installing This Unit Vertically

Using the supplied stand, you can install this unit vertically.

- 1 Put the side of this unit against the stand, making sure that the screw holes are aligned correctly.



- 2 Fasten this unit to the stand using the supplied screw, which can be found attached to the bottom of the stand.



Caution

- Detach this unit from the stand to install horizontally.
- Hold the body of this unit when lifting or moving. Holding the stand may damage the stand.
- Do not install this unit vertically without using the stand. Your DVD player might be damaged if its body remains unstable.

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SETUP

CONNECTIONS

BASIC FUNCTIONS

ADVANCED FUNCTIONS

CHANGING SETUP MENU

REFERENCE

Main Features

■ Multiple audio function

You can select the desired audio language for DVDs offering multiple audio languages (page 29).

■ Multiple subtitle function

You can select the desired subtitle language when a DVD is recorded with multiple subtitles (page 30).

■ Multiple angle function

You can select the desired camera angle of a particular scene for DVDs on which multiple angles are recorded (page 31).

■ Zoom function

You can select the part of the screen you want to zoom (page 33).

■ Dolby Digital/DTS compatibility

Your DVD player can reproduce 5.1 Channel Dolby Digital Sound with a strong sense of presence.

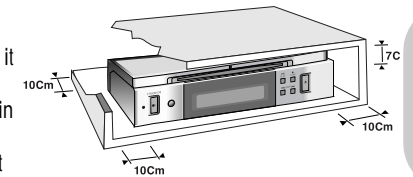
Note

- A separate amplifier, an optical digital cable, and speakers, etc. are required to enjoy Dolby Digital/DTS.
- If there are any blank data (gaps) on a multi-session disc, you might run into problems when you attempt to play the disc.
- The sound on a disc recorded with VAR (variable bit rate), ranging from 32 kbps to 320 kbps, may be distorted.
- This function depends on what information are encoded on the disc and may not work with all DVDs.

Cautions on Handling Discs

■ Handling Discs

Be careful not to dirty or damage the signal surface of discs. Hold the disc by its inner (hole) edge and outer edge and load it into the disc tray with the label side facing up (For single-sided discs). Be sure to remove the disc after use and store vertically in a clean protection jacket. Clean the disc by wiping gently in a straight line from the inside to the outside of the disc with a soft cloth. For excessive dirt, use a damp cloth with a diluted solution of neutral detergent. Use of benzene, alcohol, and other chemicals might damage the finish.



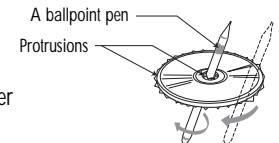
SETUP

■ Cleaning Discs

Wipe gently with a soft cloth. For excessive dirt, use a damp cloth with a diluted solution of neutral detergent. Use of alcohol or other chemical solvents for cleaning might damage the printing or finish.

■ Cautions on Handling

- A new disc may have protrusions around its edge. This disc may not play properly or cause sound to skip. If a disc has such protrusions, remove them with a ball point pen before using.
- Some discs might be defective and have deformed inner holes. Check if the inner portion of the CD is damaged, broken, or deformed.



■ About Single CDs (8 cm discs)

- When using 8 cm discs, do not use an adapter.
- When loading an 8 cm disc, properly secure the CD in the disc guide.

■ When moving the player

Be sure to remove the disc when moving the player.

■ Never move the player while a disc is being played.

Since the disc is rotating at high speed while its being played, moving the player during playback may damage the disc as well as the player's internal parts.

■ Installation Method

- Locate a flat surface and install horizontally. Do not place anything on top of it.
- Locate this unit away from the TV or cassette deck that can easily be affected by ventilation.
- Do not place on top of appliance such as amplifiers that produces heat.
- When installing inside a rack behind a glass door, do not press the OPEN/CLOSE button on the remote with the glass door closed.

■ About Copyrights




- It is prohibited by law to reproduce, broadcast, rent or play discs in public without the consent of the copyright holder.
- 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 authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

■ Copy Card

This unit is incompatible with copy card. Connecting to a video deck or VCR of a single unit VCR/TV combo for recording purpose results in a distorted picture.

Types of Discs That Can Be Played

- The types of discs listed on the table below can be used on this player.
- The marks listed on the table below are indicated on the disc labels or jackets.
- Your DVD player is suitable for PAL. Use only discs with PAL marking on them or on their package.
- Your DVD player can play a NTSC DVD disc by using Quasi-PAL mode (see page 39).

Usable Disc Types and Marks (Logos)	Disc Size / Signal Surface	Max. Playing Time
	DVD Video 12 cm / Single-sided Layer 1 Layer 2	(MPEG 2) 133 min. 242 min.
	12 cm / Single-sided Layer 1 Layer 2	266 min. 484 min.
	DVD Video 8 cm / Single-sided Layer 1 Layer 2	(MPEG 2) 41 min. 75 min.
	8 cm / Double-sided Layer 1 Layer 2	82 min. 150 min.
VIDEO-CD 	Video CD 12 cm / Single-sided	(MPEG 1) 74 min.
	Video CD 8 cm / Single-sided	(MPEG 1) 20 min.
AUDIO-CD 	CD 12 cm / Single-sided	74 min.
	CD Single 8 cm / Single-sided	20 min.

- CD-R discs recorded in music CD (CD-DA) or MP3 formats can be played. However, according to the recording quality and characteristics of the discs, some discs cannot be played.
- The following types of discs cannot be played on this player. (There are yet other types of discs in addition to those listed below that cannot be played on this player.)
 DVD-ROM, DVD-RAM, DVD-AUDIO
 DVD-R, DVD-RW, CD-ROM, photo CD, SVCD, CD-RW
 DVDs with region numbers other than the region number for this DVD player Inadvertently playing such discs may result in noise. More over, the noises generated may result in damage to the speakers.
- CD-G, CD-EXTRA, CD TEXT (Only the audio is output.)




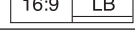






<Notes>

- The playback condition of the DVD Videos and VIDEO-CDs may be determined by the intention of the software producers. This unit may not operate the way you might want it to because it can only play the disc according to the disc contents intended by the producers of the software.
- About MP3 discs
 This player is capable of playing CD-R discs with MP3 format (hereinafter referred to as MP3 disc). For MP3 discs, certain functions are limited in your DVD player.
- Digital signals output when playing MP3 files are MP3 signals converted into PCM. 3D virtual function cannot be used.
- Program playback and random playback of tracks are not possible.
- It may not be possible to play some CD-R/RW discs due to recording quality or characteristics.
- Your DVD player can only play MP3 files recorded in ISO 9660 writing software format.
- Discs recorded in multi-session or packet write method cannot be played.
- The disc cannot be played if the disc is not closed at the end of the recording session.
- When recording (or encoding) MP files, select bit rates of 128 kbps or greater.
- When playing MP3 files recorded on CD-R/RW, your DVD player can display a file name consisting of up to 8 alphanumeric characters.

Types of Discs That Can Be Played

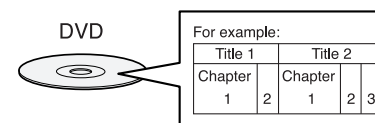
■ Markings indicated on DVD discs

The following markings are indicated on a DVD disc or its package. Each marking represents the type of video or audio data recorded on a DVD disc.

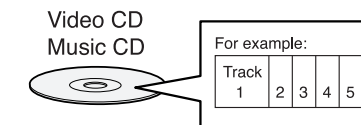
Disc Markings	Description
	The number of audio languages offered
	The number of subtitle languages offered
	The number of angle of views recorded
	Available screen aspect ratio selections
	Region Number of DVDs you can play on this player Your DVD player is capable of playing discs that are labeled with the Region Number [2] or [ALL].
	PAL broadcast system in U.K, France, Germany, etc.
	Dolby Digital disc
	Stereo disc
	Digital Audio disc
	DTS disc

■ Disc terminology

- Titles (DVD-videos)
 For example, if a DVD contains two movies, each movie is numbered Title 1 and Title 2.
- Chapters (DVD-videos)
 A title further subdivided into sections.

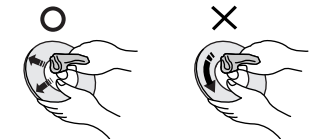


- Track (video and music CDs)
 For example, if a CD contains five songs, each song is numbered Track 1, 2, 3, 4, and 5.



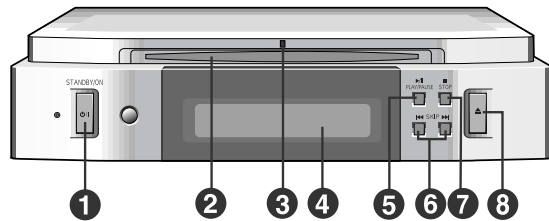
■ Handling Discs

- Avoid touching the surface of discs or writing on them. Wipe off fingerprints, grease or dirt with a soft cloth. Be sure to wipe in a straight line from the inside to the outside of the disc.





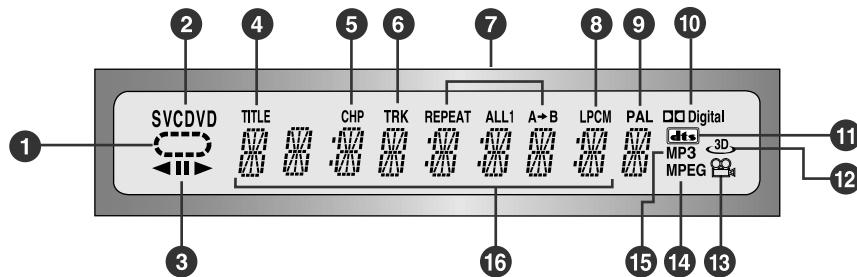
- Do not dirty or damage discs.
- Do not put discs in places exposed to direct sunlight, heat or humidity.
- Do not drop or bend discs.
- Do not use stabilizers for CDs.
- Keep discs in their cases when storing. It is prohibited by law to reproduce, broadcast, rent or play discs in public without the consent of the copyright holder.

Description-Front Panel



Front Panel Controls

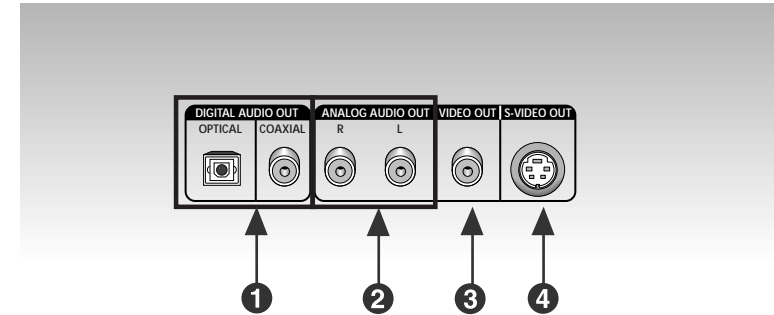
- 1** **STANDBY/ON button**
 - Turns the power on or off. The red lamp lights up while in the standby mode. When power is turned on, the red lamp lights off.
- 2** **Disc Slot**
 - Used for loading the disc or for removing the disc using the [] button.
- 3** **DISC IN:** the indicator lights up
DISC OUT: the indicator lights off
During IN/OUT operation: the indicator flashes
- 4** **DISPLAY**
 - Operation indicators are displayed here.
- 5** **PLAY/PAUSE button**
 - Begin or pause disc play.
- 6** **SKIP button**
 - Use to skip a scene or music.
- 7** **STOP button**
 - Stops disc play.
- 8** **EJECT button**
 -  (eject) button



Front Panel Display

- 1** Shows information about the operational status of this unit.
- 2** Disc type indicators
- 3** Reverse play / Pause / Forward play
- 4** DVD : Title number
- 5** DVD : Chapter number.
- 6** Video/Audio CD : Track number
- 7** Repeat play mode
- 8** Linear PCM audio output
- 9** PAL indicator
- 10** Dolby Digital Disc
- 11** DTS (Digital Theater System) output
- 12** Lights when 3D surround is turned on.
- 13** Angle indicator. You can select multiple angles of a scene recorded by different cameras.
- 14** MPEG-2 Audio output
- 15** MP3 Audio output
- 16** Displays various messages concerning operations such as PLAY, STOP, LOAD, RANDOM, ...
no DISC : No disc loaded.
EJECT : The disc is open.
LOAD : This unit is loading disc information.
DISC MENU : Displays DVD menu screen.

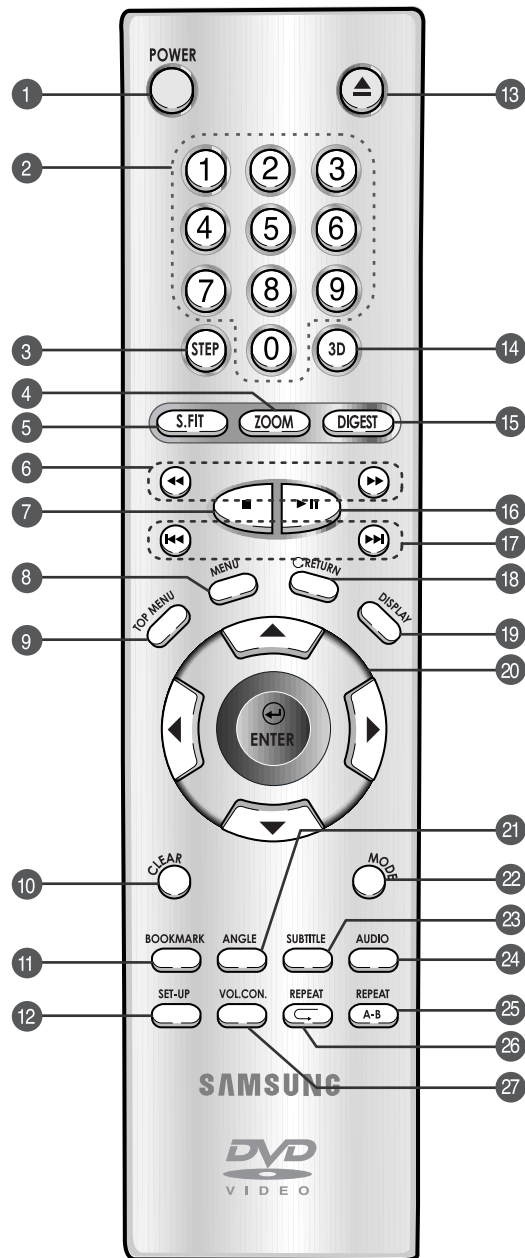
Description-Rear Panel



Rear Panel

- 1** **DIGITAL AUDIO OUT JACKS**
 - Use either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver. Use to connect to an A/V Amplifier that contains a Dolby Digital or DTS decoder.
- 2** **ANALOG AUDIO OUT JACKS**
 - Connect to the Audio input jacks of your television, audio/video receiver, or VCR.
- 3** **VIDEO OUT JACK**
 - Use a video cable to connect to the Video input jack on your television.
- 4** **S-VIDEO OUT JACK**
 - Use the S-Video cable to connect this jack to the S-Video jack on your television for a higher quality picture. The S-Video must be selected in the VIDEO OUT SELECT.

Tour of the Remote Control (Only DVD-P200)



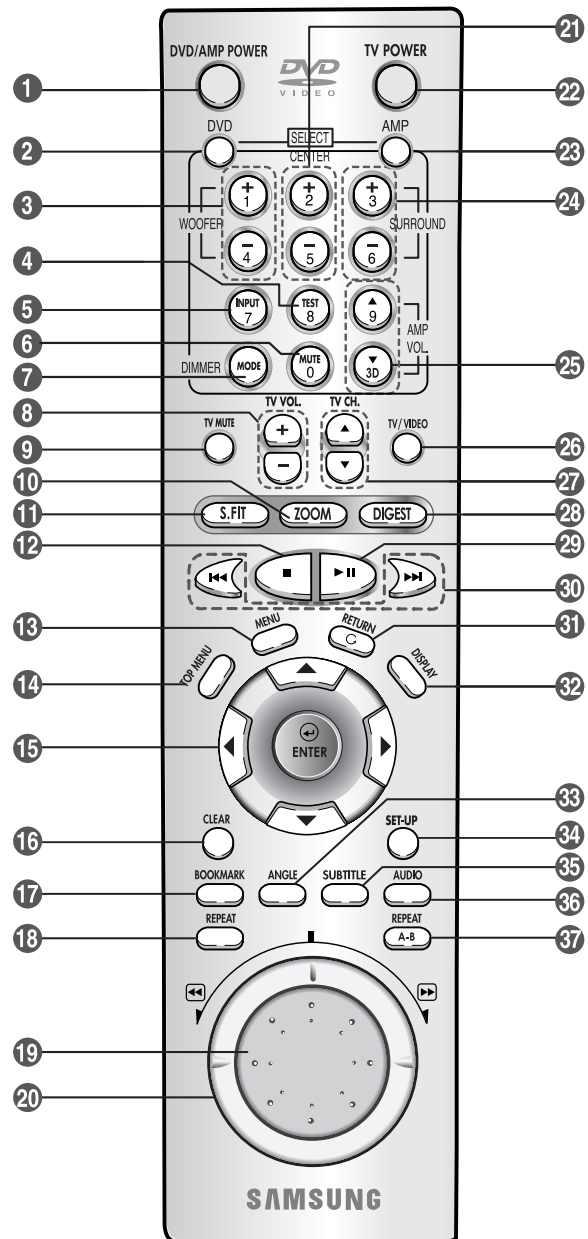
Tour of the Remote Control

DVD Function Buttons

- 1 DVD POWER Button**
• Turns the power on or off.
- 2 NUMBER Buttons**
- 3 STEP Button**
• Pauses when pressed once. Each time it is selected, Coma Transmit Playback resumes.
- 4 ZOOM Button**
• Use this to zoom in the section you're interested in. (Page 33)
- 5 S.FIT Button** (page 25)
- 6 SEARCH Buttons**
• Use these to move forward and backward through a video chapter or music track.
- 7 STOP Button**
• Press this to stop the video or music playback.
- 8 MENU Button**
• Brings up the DVD menu screen.
- 9 TOP MENU Button**
• Brings up the uppermost level DVD menu.
- 10 CLEAR Button**
• Press this to clear menus from the screen.
- 11 BOOKMARK Button** (page 32)
- 12 SETUP Button** (page 35)
• Brings up the DVD player's Setup Screen.
- 13 DISC IN/OUT Button**
• Press this to remove the disc.
- 14 3D SOUND Button** (page 33)
- 15 DIGEST Button** (page 26)
- 16 PLAY/PAUSE Button**
• Use this to begin or pause discs play.
- 17 SKIP Buttons**
• Use this to search through a particular scene or music.
- 18 RETURN Button**
• Allows you to return to previous menu item.
- 19 DISPLAY Button**
• Press this to display the current disc information.
- 20 ENTER/DIRECTION Button (UP/DOWN or LEFT/RIGHT Button)**
• This button functions as a toggle switch.
- 21 ANGLE Button** (page 31)
• Use this to access various camera angles on a DVD.
- 22 MODE Button** (page 24)
• Allows you to play back a title or chapter on a DVD, or a track on a CD regardless of their order.
- 23 SUBTITLE Button** (page 30)
- 24 AUDIO Button** (page 29)
• Press this to access various audio functions.
- 25 A-B REPEAT Button**
• Use this to repeat sections between two specific points.
- 26 REPEAT Button** (page 23)
• Use this to repeat play a title or chapter on a DVD. Use this to repeat play a track on a CD or whole CD.
- 27 VOL.CON. Button** (page 31)
• Use this to adjust the player's main volume.

Tour of the Remote Control (Only DVD-P210)

Tour of the Remote Control



DVD Function Buttons

- 1** DVD/AMP POWER Button
 - Turns the power on or off.
- 2** DVD Button
- 3** WOOFER VOLUME Buttons
- 4** TEST Button
- 5** INPUT Button
- 6** AMP MUTE Button
- 7** MODE Button
 - Allows you to program a specific order.
- 8** TV VOLUME Buttons
- 9** TV MUTE Button
- 10** ZOOM Button
 - Use this to zoom in the section you're interested in. (Page 33)
- 11** S.FIT Button
- 12** STOP Button
 - Press this to stop the video or music playback.
- 13** MENU Button
 - Brings up the DVD menu screen.
- 14** TOP MENU Button
 - Brings up the uppermost level DVD menu.
- 15** ENTER/DIRECTION Button (UP/DOWN or LEFT/RIGHT buttons)
 - This button functions as a toggle switch.
- 16** CLEAR Button
 - Press this to clear menus from the screen.
- 17** BOOKMARK Button (page 32)
- 18** REPEAT Button (page 23)
 - Use this to repeat play a title or chapter on a DVD. Use this to repeat play a track on a CD or whole CD.
- 19** JOG DIAL
 - Operates frame by frame play. In CD mode, performs track search.
- 20** SHUTTLE DIAL
 - Performs fast or slow motion play.
- 21** CENTER VOLUME Button
- 22** TV POWER Button
- 23** AMP Button
- 24** SURROUND VOLUME Button
- 25** 3D Button (page 33) / AMP VOLUME Button
- 26** TV/VIDEO Button
- 27** TV CHANNEL Button
- 28** DIGEST Button (page 26)
- 29** PLAY/PAUSE Button
 - Use this to begin or pause discs play.
- 30** SKIP Buttons
 - Use this to search through a particular scene or music.
- 31** RETURN Button
 - Allows you to return to previous menu item.
- 32** DISPLAY Button
 - Press this to display the current disc information.
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 - Use this to repeat sections between two specific points.

Choosing a Connection

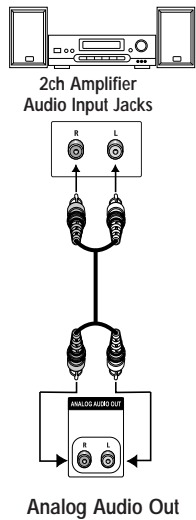
The following show examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connecting the DVD Player

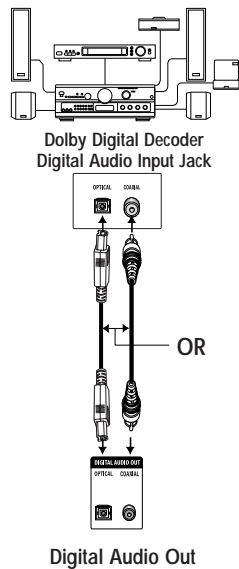
- Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.
- Refer to the owner's manual of the additional components you are connecting for more information on those particular components.

Connection to an Audio System

Method 1



Method 2



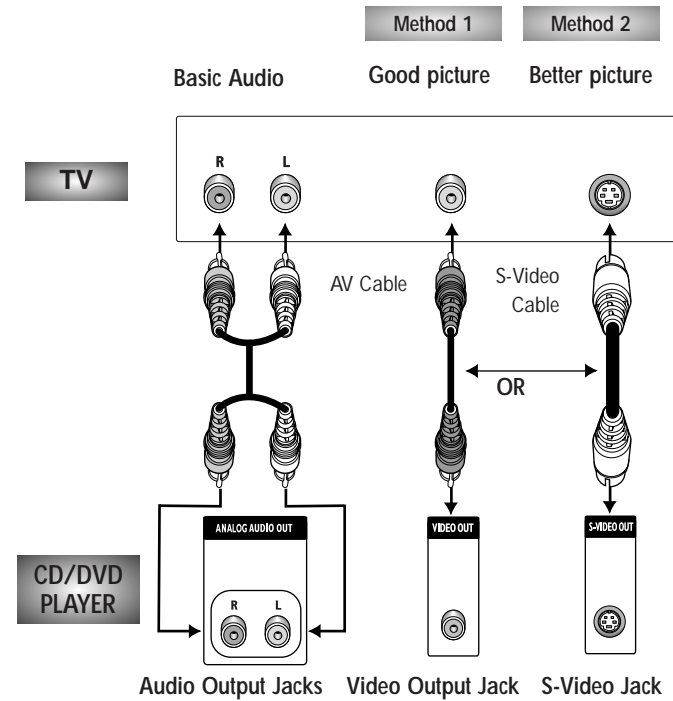
AUDIO

CD/DVD PLAYER

Choosing a Connection

Connection to a TV (For Video)

TV (Normal, Widescreen, Projection, etc..)



- Method 1 DVD Player + TV with Video Input Jack
- Method 2 DVD Player + TV with S-Video Input Jack

Note

- Please directly connect this unit's video outputs to the TV. If you connect this unit to the TV via a VCR or play back via a VCR, the copy card may cause disturbance in the picture.

Preparation

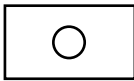





You can select the aspect ratio or the shape of your TV's screen.

You can adjust the aspect ratio according to the type of TV connected to this unit. Most DVD pictures are encoded in 16:9 ratio screen. When viewing these pictures on conventional 4:3 screen TVs, the pictures will appear elongated vertically. To prevent this, set up the following when using a 4:3 TV.

- 1 In the stop mode, press the [SETUP] button on the remote control.
- 2 Use the [▲▼] cursor buttons to select "DISPLAY OPTIONS", then press the [ENTER] button.
- 3 Use the [▲▼] cursor buttons to select "TV ASPECT", then press the [ENTER] button.
- 4 Use the [▲▼] cursor buttons to select the desired screen setting, then press the [ENTER] button.
 - 4:3 (LETTER BOX): Select this to view wide DVDs in the letter box mode on a conventional size (4:3 ratio screen) TV.
 - 4:3 (PAN-SCAN): Select this to view wide DVDs in the pan-scan mode on a conventional size (4:3 ratio screen) TV.
 - 16:9 (WIDE): Select this to view wide DVDs in the full-screen mode on a wide screen TV (16:9 ratio screen).
- 5 Press the [SETUP] button to complete the video setup.

How to view DVDs recorded in 16:9 format on a 4:3 TV

Note

The picture recorded on a DVD	This unit's setting	Description of screen ratios
16 : 9 	4:3 (LETTER BOX)	 You can view the picture correctly, but with black strips at the top and bottom.
	4:3 (PAN-SCAN)	 You can view the picture correctly, but with the sides of the picture cut off. If the picture does not look this way, select 4:3 (LETTER BOX) mode.
	16:9 (WIDE)	 The picture appears elongated vertically. If the picture looks this way, select either 4:3 (LETTER BOX) or 4:3 (PAN-SCAN) mode.
4 : 3 	4:3 (LETTER BOX) 4:3 (PAN-SCAN) 16:9 (WIDE) Regardless of the setting	 You can view the picture correctly.

Note

- Whether you can adjust the aspect ratio depends on the disc. Refer to the disc jacket for details.
- This setting cannot be changed during playback.

Playing a Disc

Before Play

- Turn on your TV and press the TV/VIDEO button to select the video mode.
- Turn on your Audio System and select AUX, CD or DVD.

After plugging in the player, the first time you press the DVD POWER button, this screen comes up :
If you want to select the language, press a NUMBER button. (This screen will only appear the very first time you plug in the player.)



Play

- 1 Insert the disc into the disc slot.
- 2 A menu screen appears. In this case use the [▲▼] button on the remote control unit to select the desired item, then press the [ENTER] button.
- 3 To stop playback, press the [STOP] button during playback.
- 4 To remove the disc, press the ▲ [EJECT] button.
- 5 To pause playback, press the [PLAY/PAUSE] button or [STEP] button on the remote control unit during playback.
 - Screen stops and no sound is heard temporarily.
 - To resume again, press [PLAY/PAUSE] button once again.

Note

- The Step button is only on the remote control unit of the DVD-P200 model. For DVD-P210 models, turn the JOG DIAL to play in the STEP motion playback mode.

Playing Step Motion & Slow Motion

- 1** To perform coma transfer playback, press the [STEP] or [PLAY/PAUSE] button to temporarily pause playback, then press the [STEP] button.
- Each time the [STEP] button is pressed, a new frame will appear.
 - Press the [PLAY/PAUSE] button to resume normal playback. (You can only perform coma transfer playback in the forward direction.)


2 Slow Motion Playback (Except CD)

- Press the [PLAY/PAUSE] or [STEP] button to temporarily pause playback.
- **(DVD-P200)** Using the [FWD/REW SEARCH] button, select the slow motion playback speed (1/8, 1/4, 1/2).
- **(DVD-P210)** Using the [SHUTTLE DIAL], select the slow motion playback speed (1/8, 1/4, 1/2)
- No sound is heard during slow mode.
- Press the [PLAY/PAUSE] to resume normal playback.
- When playing a VCD, the reverse slow motion playback will not work.

RESUME function

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

NOTE

- If the player is left for 5 minutes in pause mode, it will stop.
- If the player is left in the stop mode for more than 30 minutes, the power will automatically shut off. (Automatic Power-Off Function)
- If the player is left in the stop mode for more than one minute without any user interaction, a screen saver will be activated, and the TV screen will fade in and out repeatedly. Press the PLAY button to resume normal play.
- This  icon indicates an invalid button press.

Using the Search & Skip Functions

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

Searching through a Chapter or Track

- 1** During play, press the FWD or REV SEARCH button on the remote.

- Press the REVERSE or FORWARD SEARCH button to search through the DVD at the desired speed (2X/4X/8X/16X/32X/128X).

DVD	2X, 4X, 8X, 16X, 32X, 128X
VCD	4X, 8X
CD	2X, 4X, 8X

- To return to normal speed play, press the PLAY/ PAUSE button.
- You cannot use search mode on an MP3 disc.
- **(DVD-P210)** Turn the SHUTTLE DIAL knob to perform the FWD or REW SEARCH function.

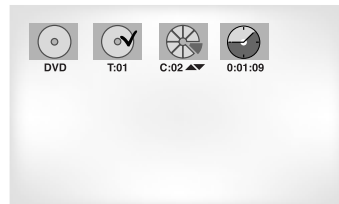
Skipping Tracks

- 1** During play, press the NEXT SKIP or BACK SKIP button.

- When playing a DVD, if you press the NEXT SKIP button, it moves to next chapter. If you press the BACK SKIP 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, a VCD 1.1 or a CD, if you press the NEXT SKIP button, it moves to next track. If you press the BACK SKIP 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 NEXT SKIP button, it moves forward 5 minutes. If you press the BACK SKIP button, it moves backward 5 minutes.
- When playing a VCD 2.0 in the MENU MODE or Track View function, if you press the NEXT SKIP button, it moves to the next MENU or the next Track View display. If you press the BACK SKIP button, it moves to the previous MENU or the previous Track View display. (See page 28.)

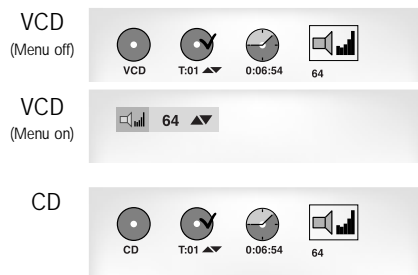
When Playing a DVD

- 1 During play, press the DISPLAY button on the remote.
 - Current title, chapter number and elapsed time will be displayed.
 - Use the [◀▶] button to select a title or a chapter number.
 - Use the [▲▼] button or Number buttons to enter a different title or chapter number, then press the ENTER button.
 - To enter the time from which you want to start, use the [◀▶] button to select, then use the Number buttons to enter the time. Then press the ENTER button.
- 2 Press the DISPLAY button on the remote twice.
 - Current audio, subtitle and volume control will appear.
 - To make the screen disappear, press the DISPLAY button again.



When Playing a CD/VCD

- 1 During play, press the DISPLAY button on the remote.
 - Current track number, elapsed time and volume control will be displayed.
 - Use the [◀▶] button to select a track.
 - Use the [▲▼] button or Number buttons to enter a different track number, then press the ENTER button.
 - To enter the time from which you want to start, use the [◀▶] button to select, then use the Number buttons to enter the time. Press the ENTER button.
- To make the screen disappear, press the DISPLAY button again.



NOTE

What is a Chapter?
Each Title on a DVD is usually divided into chapters (similar to tracks on an audio CD).

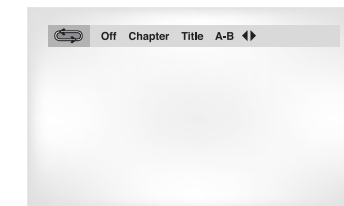
What is a Title?
A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.

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

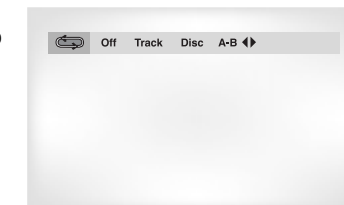
When playing a DVD

- 1 Press the REPEAT button on the remote. Repeat screen appears.
- 2 Select Chapter, Title or A-B using the [◀▶] button.
 - A-B Repeat
 - Press the REPEAT button. Select A-B on screen with the [◀▶] button or press the A-B button on the remote.
 - Press ENTER at the point where you want the repeat play to start (A). The B is automatically highlighted.
 - Press ENTER at the point where you want the repeat play to stop (B).
- 3 Press ENTER.
- 4 To return to normal play, press REPEAT again, then press the [◀▶] button to select Off and press ENTER.

DVD



VCD/CD

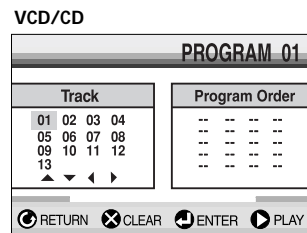
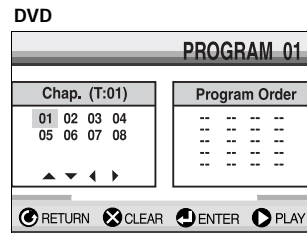


NOTE

- DVD repeats play by chapter or title, CD and VCD repeat play by disc or track.
- Depending on the disc, the Repeat function may not work.
- If the title or track is completed before marking the end (B), the end of title or track becomes B automatically.
- When in VCD 2.0 mode (MENU ON mode), this function does not work.

Program Play (DVD/VCD/CD)

- 1 Press the MODE button.
- 2 Use the [◀▶] button to select PROGRAM.
Press the ENTER button.
- 3 Use the [◀▶] button to select the first chapter (or track) to add to the program. Press the ENTER button. The selection numbers appear in the Program Order box.
- 4 Press the PLAY/PAUSE button. The disc will be played in programmed order.



Screen Fit Play

- 1 Press Screen FIT button on remote control.
 - Allows you to eliminate the black bars in the top and bottom of the screen when a movie is playing in the Widescreen format(16:9).
 - Screen Fit will not work when Zoom mode is active. (you can not remove the black bars in screen) However, Zoom mode will work when Screen Fit is active.



Random Play (DVD/VCD/CD)

- 1 Press the MODE button.
- 2 Use the [◀▶] button to select RANDOM.
Press the ENTER button.
The disc will be played in random order.



NOTE

- Depending on the disc, the Program and Random Play function may not work.
- When in VCD 2.0 mode (MENU ON mode), these functions do not work.
- To resume normal play, press the CLEAR button.

NOTE

- Various aspect ratios are available only in multiple screen format discs.
- This function does not work when a DVD has been recorded with a multi-camera angle format.
- On some DVDs, the black bars cannot be eliminated due to their aspect ratio.

Digest Play

Slow Repeat play

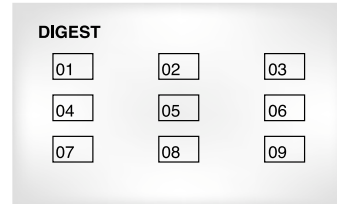
Digest Play

1 During play, press the DIGEST button.

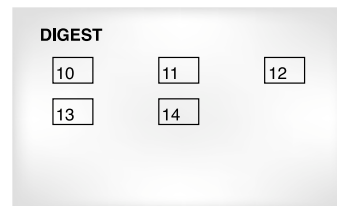
- You'll see the 9 individual windows representing each of the chapters on the TV screen.
- When each window is displayed, the first 3 seconds of the chapter will be played.

2 Press [**▲▼**] / [**◀▶**] button to select the window you'd like to see, and press the ENTER button.

- Up to 9 windows(chapters) can be displayed on the screen at a time.
Press the 'Skip' button for the next 9 chapters if the movie has more than 9.



skip button



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

When playing a DVD

1 Press the PLAY/PAUSE button.

2 Press the F/SEARCH button to choose the play speed between 1/8X, 1/4X, and 1/2X of normal.

3 Press the REPEAT (A-B) button to select the point where the function starts. (A)

4 Press the REPEAT (A-B) button to select the point where the function ends. (B)

NOTE

- You can play the DVD player starting with the desired chapter after directly moving to the scene you want.
- 'DIGEST' may not operate depending on the disc in use.

NOTE

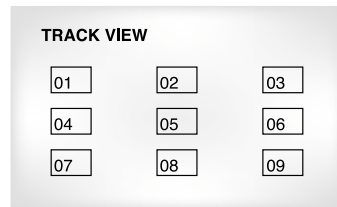
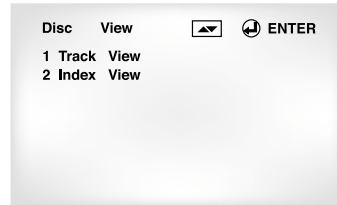
- The disc will play only from A to B repeatedly at the speed you chose.
- To terminate the function, press the 'CLEAR' button or the 'REPEAT (A-B)' button again.

Using the Disc View Function

Track View (VCD)

Displays the beginning view of each track and the track number.

- 1 During play, press the TOP MENU button.
- 2 Press the [▲▼] button to select TRACK VIEW. Press the ENTER button.
- 3 Select the desired view by pressing the [▲▼] or [◀▶] buttons.
- 4 Press the ENTER button.

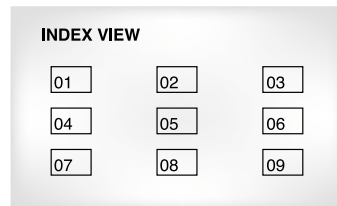


example

Index View (VCD)

Displays the equally divided 9 views of the current playing track.

- 1 During play, press the TOP MENU button.
- 2 Press [▲▼] button to select INDEX VIEW. Press the ENTER button.
- 3 Select the desired view by pressing [▲▼] or [◀▶] buttons.
- 4 Press the ENTER button.



example

NOTE

- In stop mode on VCD, press the TOP MENU button and the TRACK VIEW will be displayed.
- When pressing the TOP MENU button with a DVD; the disc's TITLE MENU function comes up. A disc must have at least two titles for the TITLE MENU function to work.
- When pressing the TOP MENU button with a CD; the unit enters the INTRO mode. INTRO lets you listen to the beginning of each track for about 10 seconds.

Selecting the Audio Language

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

Using the AUDIO button

- 1 Press the AUDIO button.
- 2 Use the [▲▼] button to select the desired language on a DVD.
 - The audio languages are represented by abbreviations.
- 3 Use the [▲▼] button to select Stereo, Right or Left. (On VCD/CD)



NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 8 audio languages.
- **How to have the same audio language come up whenever you play a DVD;** Refer to "Setting Up the Language Features" on page 35.

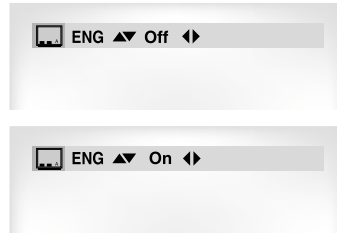
Selecting the Subtitle Language

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

Using the SUBTITLE button

- 1 Press the SUBTITLE button.
- 2 Use the [▲▼] button to select the desired subtitle language.
- 3 Use the [◀▶] button to determine whether or not the subtitle will be displayed.

- Initially, the subtitling will not appear on screen.
- The subtitle languages are represented by abbreviations.




NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 32 subtitle languages.
- **How to have the same subtitle language come up whenever you play a DVD;**
Refer to "Setting Up the Language Features" on page 36.

Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can select the Angle function.

Using the ANGLE button

Press the ANGLE button to see if an ANGLE () mark is present at the upper right hand corner of the screen.

- 1 When an ANGLE mark is shown, press the ANGLE button, then an ANGLE select icon will appear at the upper left hand corner of the screen.
- 2 Use the [▲▼] button to select the desired screen angle.
- 3 To turn off the display, press the ANGLE button again.

* Press the [CLEAR] button on the remote control to clear the Angle mark.



example

Master Volume Control Function (Only DVD-P200)

- 1 Press the VOL.CON. button. Use the [▲▼] button to select a suitable volume.

- Master Volume Control function lets you adjust the volume of the player's output. This is useful for matching the player's output level to other equipment in your system.
- Volume control is only operative when using the Analog Audio outputs.
- There are up to 64 levels. Lowering each level reduces the audio level by 0.5dB.



example

Using the Bookmark Function

The Bookmark function lets you select parts of a DVD or VCD (MENU OFF mode) so that you can quickly find the section at a later time.

Using the Bookmark Function (DVD/VCD)

- 1 During play, press the BOOKMARK button on the remote. The Bookmark icons will be displayed.
- 2 Use the [◀▶] button to move to the desired bookmark icon.
- 3 When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).
- 4 Press the BOOKMARK button to turn off the display.



Recalling a Marked Scene

- 1 During play, press the BOOKMARK button on the remote.
- 2 Use the [◀▶] button to select a marked scene.
- 3 Press the PLAY/PAUSE button to skip to the marked scene.



Clearing a Bookmark

- 1 During play, press the BOOKMARK button on the remote.
- 2 Use the [◀▶] button to select the bookmark number you want to delete.
- 3 Press the CLEAR button to delete a bookmark number. Press the BOOKMARK button to turn off display.

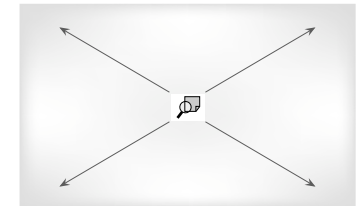
NOTE

- Up to three scenes may be marked at a time.
- When in VCD 2.0 mode (MENU ON mode), this function does not work.
- Depending on the disc, the Bookmark function may not work.

Using the Zoom & 3D Sound Functions

Using the Zoom Function (DVD/VCD)

- 1 During play or pause mode, press the ZOOM button on the remote. A square will be displayed on screen.
- 2 Use the [▲▼] or [◀▶] button to select the part of the screen you want to zoom in on.
- 3 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

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

Using the 3D Sound Function

The simulated surround effect (SPATIALIZER N-2-2) depends on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect. This feature is useful when you are using the DVD player with a two channel stereo through the analog outputs. (Discs which are recorded with LPCM or DTS will not work. When the DIGITAL OUTPUT is set to BIT STREAM in the SETUP MENU, the 3D Sound function will not work.)

- 1 During play, press the 3D SOUND button. The 3D SOUND mark will be displayed on screen. (Be sure the DIGITAL OUTPUT is set to PCM.)
- 2 Press the [▲▼] button to turn the 3D Sound feature on or off.

NOTE

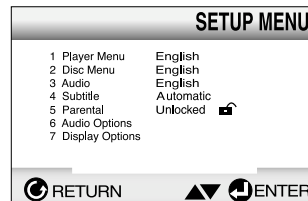
- 3D Sound is possible only on discs recorded using DOLBY SURROUND or DOLBY DIGITAL. However, some of these discs do not contain rear channel sound signals.
- Depending on the disc, the 3D Sound function may not work.

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 SETUP button on the remote.

- 1 Player Menu :** Setup of the Display Language
Use the Player preference menu to select the language for the player's on-screen displays.
- 2 Disc Menu :** Setup of the Menu Language
Use the Menu preference menu to select the language you want a DVD's disc menu to be displayed in.
- 3 Audio :** Setup of the Audio Language
Use the Audio preference menu to select the soundtrack language.
- 4 Subtitle :** Setup of the Subtitle Language
Use the Subtitle preference menu to select the language the disc's subtitles are to be displayed in.
- 5 Parental :** 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.
- 6 Audio Options :** Setup of the Audio Options
- 7 Display Options :** Setup of the Display Options
Use to select which type of screen you want to watch and several display options.



2 Use the [▲▼] button on the remote to access the different features.

3 Press the ENTER button to access the sub features.

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

NOTE

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

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 SETUP button.
- 2** Use the [▲▼] button to select the PLAYER MENU.
- 3** Press the ENTER button.
- 4** Use the [▲▼] button to select 'English'.
- 5** Press the ENTER button.
 - English is selected and the screen returns to SETUP MENU.
 - To make the SETUP MENU disappear, press the RETURN button.

e.g Setting up in English.



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 SETUP button.
- 2** Use the [▲▼] button to select DISC MENU.
- 3** Press the ENTER button.
- 4** Use the [▲▼] button to select 'English'.
 - Select "Others" if the language you want is not listed.
- 5** Press the ENTER button.
 - English is selected and the screen returns to SETUP MENU.

e.g Setting up in English.



Setting Up the Language Features

Setting Up the Parental Control

Using the Audio Language

- 1 With the unit in Stop mode, press the SETUP button.
- 2 Press the [▲▼] button to move to AUDIO.
- 3 Press the ENTER button.
- 4 Press the [▲▼] button to select 'English' .
 - 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.
- 5 Press the ENTER button.
 - English is selected and the screen returns to SETUP MENU.



Using the Subtitle Language

- 1 With the unit in Stop mode, press the SETUP button.
- 2 Use the [▲▼] button to select SUBTITLE.
- 3 Press the ENTER button.
- 4 Use the [▲▼] button to select 'ENGLISH' .
 - Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio preference.
 - 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.
- 5 Press the ENTER button.
 - English is selected and the screen returns to SETUP MENU.



NOTE

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- How to make the SETUP MENU disappear or return to menu screen during set up; Press RETURN button.

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 SETUP button. The Setup Menu screen appears.
- 2 Use [▲▼] to select Parental. Press ENTER. The Parental Control screen appears.
- 3 Use [◀▶] to select Yes if you want to use a password. Press ENTER. The Enter Password screen appears.
- 4 Enter your password. The Re-enter Password screen appears to confirm the password. Enter your password again. The Parental Control screen appears.
- 5 About the Rating Level ;

The Rating Level will work only when Use Password is set to Yes. To unlock the player, use [◀▶] to select No. Use [▲▼] to select Rating level. Press ENTER.

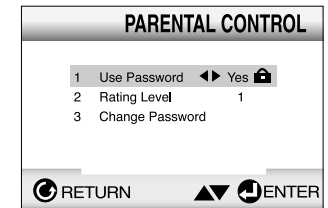
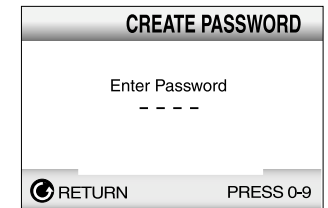
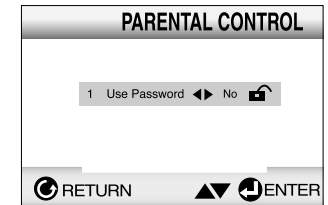
- Use [▲▼] to select the level(e.g. Level 6) and press ENTER. Discs that contain Level 7 will now not play.
- To cancel the rating level, use [◀▶] to select No in Use Password.

- 6 About the Change Password ;

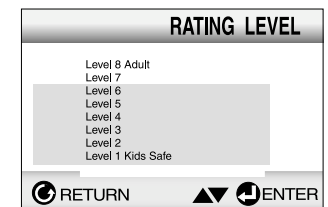
- Use [▲▼] to select Change Password. The Change Password screen appears.
- Enter your new password. Re-enter the new password again.

NOTE

- How to make the SETUP MENU disappear or return to menu screen during set up; Press RETURN button.
- If you have forgotten your password, see Forget Password in the Troubleshooting Guide.

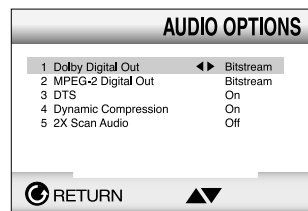


e.g Setting up in LEVEL6.



Setting Up the Audio Options

- 1 With the unit in Stop mode, press the SETUP button.
- 2 Use the [▲▼] button to select AUDIO OPTIONS. Then press the ENTER button.
- 3 Use the [▲▼] button to select the desired item. Then press the [◀▶] button.



1 Dolby Digital Out

1. PCM :
Converts to PCM(2CH) audio.
Select PCM when using the Analog Audio Outputs.
2. Bitstream :
Converts to Dolby Digital Bitstream (5.1CH).
Select Bitstream when using the Digital Audio Output.

NOTE : Be sure to select the correct Digital Output or no audio will be heard.

3 DTS

1. On : Outputs DTS Bitstream via digital output only.
Select DTS when connecting to a DTS Decoder.
2. Off : Doesn't output digital signal.

5 2X Scan Audio

1. On : Turns 2X audio on.
2. Off : Turns 2X audio off.
Though 2X Scan Audio is ON in the SETUP MENU, no sound will be heard on discs which are recorded with LPCM, DTS or MPEG-2 Audio.

NOTE

- How to make the SETUP MENU disappear or return to menu screen during set up; Press RETURN button.
- Certain audio features of this product manufactured under a license from Desper Products, Inc. Spatializer® and circle-in-square device are trademarks owned by Desper Products, Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories Inc. All rights reserved.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

2 MPEG-2 Digital Out

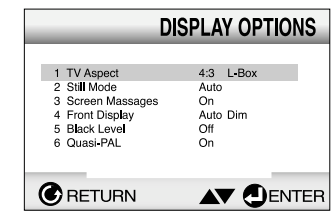
1. PCM :
Converts to PCM(2CH) audio.
Select PCM when using the Analog Audio Outputs.
2. Bitstream :
Converts to MPEG-2 Digital Bitstream (5.1CH or 7.1CH).
Select Bitstream when using the Digital Audio Output.

4 Dynamic Compression

1. On : To select dynamic compression.
2. Off : To select the standard range.

Setting Up the Display Options

- 1 With the unit in Stop mode, press the SETUP button.
- 2 Use the [▲▼] button to select DISPLAY OPTIONS. Then press the ENTER button.
- 3 Use the [▲▼] button to select the desired item. Then press the [◀▶] button.



1 TV Aspect

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

1. 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.
2. 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.)
3. 16:9 Wide :
You can view the full 16:9 picture on your widescreen TV.

2 Still Mode

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

1. Field : Select this feature when the screen shakes in the Auto mode.
2. Frame : Select this feature when you want to see small letters more clearly in the Auto mode.
3. Auto : When selecting Auto, Field/Frame mode will be automatically converted.

3 Screen Messages

Use to turn on-screen messages On or Off.

4 Front Display

Adjust the brightness of the unit's front panel display.

1. Bright : Makes the Front Panel Display bright.
2. Dim : Makes the Front Panel Display dim.
3. Auto Dim : Makes the Front Panel Display dim automatically when playing a DVD.

5 Black Level

Adjusts the brightness of the screen.(On/Off)

6 Quasi-PAL

Depending on a disc, you can play a NTSC DVD disc by Quasi-PAL mode.

Controlling a TV with the Remote (DVD-P210 only)

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

TV Codes	
CODE	BRAND
01	SAMSUNG_4
02	SAMSUNG_6, LG, LOEWE, PHILIPS, FINLUX, YOKO, LOEWE OPTA, MITSUBISHI, PHONOLA, RADIOLA, SCHNEIDER
03	SAMSUNG_1
04	SAMSUNG_2
05	SAMSUNG_3
06	SAMSUNG_5
07	TOSHIBA
08	PANASONIC_4
09	GRUNDIG, BLAUPUNKT, SIEMENS
10	SHARP
11	HITACHI
12	SANYO, AKAI, FISHER
13	HITACHI, SABA, THOMSON, NORDMENDE
14	HITACHI, NORDMENDE, SABA, TELEFUNKEN, THOMSON, BRANDT, FERGUSON, PIONEER, TELEAVA
15	SONY
16	TOSHIBA, SANYO, SHARP, SONY, MITSUBISHI
17	TOSHIBA, GRUNDIG, FINLUX
18	TOSHIBA
19	TOSHIBA
20	PHILIPS, PHONOLA, RADIOLA
21	TOSHIBA, GRUNDIG, CGE, IMPERIAL, MIVAR
22	PHILIPS, SABA, BANG&OLUFSEN, BRIONVEGA, FINLUX, FORMENTI, LOEWE OPTA, METZ, WEGA, PHONOLA, RADIOMARELLI, SINGER, SINUDYNE
23	NOKIA, PANASONIC, SABA, PIONEER, REZ, SELECO, SALORA
24	HITACHI, NORDMENDE, PANASONIC, SABA, TELEFUNKEN, THOMSON, CONTINENTAL, EDISON
25	PANASONIC_2
26	PANASONIC_3
27	PANASONIC_6
28	TELEFUNKEN
29	MIVAL
30	LG_2
31	SHARP_2
32	JVC
33	THOMSON ASIA
34	THOMSON ASIA

1 Turn on the TV.

2 Point the DVD's remote at the TV.

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

e.g For SAMSUNG 4 TVs

While holding down the TV POWER button, enter 0 and then 1.

4 If the TV turns off, setup is complete.

Enter other codes of the same brand if the first code does not work.


5 To operate the TV, use the "TV Function Buttons" described on page 15.

NOTE

The remote may not be able to control every model TV of the brands listed.

Troubleshooting

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

Problem	Action	Page
No operations can be performed with remote.	<ul style="list-style-type: none"> Check the batteries in the remote. 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 to reset it. Reinstall batteries and try remote again. 	P4
Disc does not play.	<ul style="list-style-type: none"> Ensure that the disc is installed with the label side facing up. Check the region number of the DVD. 	P 8, 9
5.1 channel sound is not being reproduced.	<ul style="list-style-type: none"> 5.1 channel sound is reproduced only when the following conditions are met. : <ol style="list-style-type: none"> The DVD player is connected with the proper amplifier The disc is recorded with 5.1 channel sound. Check whether the disc being played has the "Dolby 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? 	P 16
The  icon appears on screen.	<ul style="list-style-type: none"> The features or action cannot be completed at this time because: <ol style="list-style-type: none"> The DVD's software restricts it. The DVD's software doesn't support the feature (e.g., angles). The feature is not available at the moment. You've requested a title or chapter number or search time that is out of range. 	P 20
Disc Menu doesn't appear.	<ul style="list-style-type: none"> Check if the disc has a Menu. 	P 34-35
Play mode differs from the Setup Menu selection.	<ul style="list-style-type: none"> Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function. 	P 34-39
The screen ratio cannot be changed.	<ul style="list-style-type: none"> The Screen Ratio is fixed on your DVDs. 	P 39
No audio.	<ul style="list-style-type: none"> Make sure you have selected the correct Digital Output in the Audio Options Menu. 	P 38
Forgot password	<ul style="list-style-type: none"> Press power on from a cold start with no disc in the unit. Press the STOP and PLAY buttons simultaneously on the front panel for three seconds. The Select Menu Language display will appear. Select the desired language button. Press the SETUP button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press ENTER and the Create Password display will appear. You can now set your rating level and change your password to a new number. 	P 37
If you experience other problems.	<ul style="list-style-type: none"> 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. 	

Terminology

Aspect ratio

The ratio of width to height of a TV screen. A conventional size TV has a 4:3 ratio screen, whereas a hi-vision or widescreen TV has a 16:9 ratio screen. Feeling of a widened field of vision enhances your enjoyment of pictures.

Rating limit

Some DVDs containing violent scenes have been assigned a rating limit. If you set the rating limit for this player to a level lower than the one assigned to a DVD disc, you cannot play the disc without entering the password.

Title

A DVD may contain several different titles on a single disc. For example, if a disc contains three different movies, these movies are numbered as title 1, title 2, and title 3. You can select a title number for playback.

Dynamic Range

The ratio in dB between the highest signal level that can be tolerated without distortion and the broadband noise level measured in the absence of the signal.

Chapter

A title on a DVD is subdivided into smaller sections called "chapters", each of which is numbered, similar to the way a book has chapters. If a DVD has chapters recorded on it, you can perform chapter search operation to quickly locate specific parts of video presentations.

Dolby Digital

Dolby Digital offers a 5.1 channel discrete digital surround-sound. This is the same surround-sound system used in movie theaters.



To enjoy Dolby Digital, you need to connect the digital output jack of this unit to the digital input jack of a Dolby Digital compatible amplifier.

Optical digital output

Whereas an audio signal is commonly converted into electrical signal for transmission from the player to other components, such as amplifiers, via an electric wire, optical digital output is a fiber-optic output of the digital audio signal. (When signals are received by an Amp, it is called optical digital input.)

Playback control (PBC)

Signals used for controlling playback of video CDs (version 2.0). You can enjoy simple dialog style softwares as well as softwares with a video function using the menus recorded on a VCD. You can also enjoy high/standard resolution still pictures.

Multiple angles

Recorded onto some DVD discs are scenes that have been simultaneously shot from a number of different angles. For DVDs on which multiple angles are recorded, you can freely change the angle of view.

Multiple audio languages

Certain DVDs contain multiple audio tracks mastered on a single disc. Up to 8 different audio languages (8 stream) can be stored and you can select the language track desired.

Multiple subtitle language

Subtitles familiar in movies. Up to 32 subtitle languages can be recorded on a DVD and you can select the subtitle language desired.

Region No.

Both DVD players and DVD discs are encoded with a region number. If the region number of a DVD disc does not correspond to the region number of the DVD player, the DVD player cannot play the disc. The region number for this DVD player is [2]. (The region number is printed on the back of this unit.)

MP3

MP3, for MPEG-1 Audio Layer 3, is one kind of MPEG format. It is a method of compressing audio data, ignoring sounds inaudible to human ears, into a smaller file while preserving the stereo audio.

Terminology

DTS

Abbreviation for Digital Theater Systems. One kind of surround sound system, different from Dolby Digital. To enjoy DTS encoded discs, you need to connect the digital output jack of this unit to the digital input jack of a DTS compatible amplifier or decoder.

MPEG

Abbreviation for Moving Picture Experts Group, pronounced "M-peg". This is the international standard for digital compression of moving pictures. Certain DVDs have digital audio encoded using this method.

PCM

Abbreviation for Pulse Code Modulation, another name for digital audio. This is the standard format for CD and DVD audio.

Specifications



UNITED KINGDOM

General	Power Requirements	AC 100~240 V, 50/60 Hz
	Power Consumption	15 W
	Weight	2.5 Kg
	Dimensions	242mm X 283mm X 72mm
	Operating Temperature Range	+5°C to +35°C
	Operating Humidity Range	10 % to 75 %
Disc	DVD : 12Cm (DIGITAL VERSATILE DISC)	Reading Speed : 3.49 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12Cm (COMPACT DISC)	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min.
	CD : 8Cm (COMPACT DISC)	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 20 min.
	VCD : 12Cm	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min. (Video + Audio)
Video Output	Composite Video	1 channel : 1.0Vp-p (75Ω load)
	S-VIDEO	Luminance Signal : 1.0 Vp-p (75Ω load) Chrominance Signal : 0.286 Vp-p (75Ω load)
Audio Output	2 channel	L(1/L), R(2/R)
	*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 without notice.
- Weight and dimensions are approximate.

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased. However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

**Samsung Electronics (U.K.) Ltd.,
Euro Service Centre, Stafford Park 12,
TELFORD, Shropshire TF3 3BJ,
Tel: 0870) 2420303, Fax: 01952) 207117**

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No re-imbusement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no re-imbusement will be made for such adaptation nor any damage which may result.



5. This warranty covers none of the following:
 - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
 - b) Cost relating to transport, removal or installation of the product.
 - c) Misuse, including the failure to use this product for its normal purposes or incorrect installation.
 - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

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