



LG

Life's Good

OWNER'S MANUAL DVD Home Theater System

Please read this manual carefully before operating your set and retain it for future reference.

DH6220S (DH6220S, S62S1-S/ W, S62T1-C)



MFL67524612

Safety Information

1

Getting Started



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.

CAUTION: Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings shall be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product shall not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction has been adhered to.



CAUTION: This product employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Shall the unit require maintenance, contact an authorized service center. Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure.

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service center. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

This device is equipped with a portable battery or accumulator.

Safety way to remove the battery or the battery from the equipment: Remove the old battery or battery pack, follow the steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators. The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION: The apparatus shall not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Copyrights

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission. This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear. This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

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

You have to set the disc format option to [Mastered] in order to make the discs compatible with the LG players when formatting rewritable discs. When setting the option to Live File System, you cannot use it on LG players.

(Mastered/ Live File System : Disc format system for Windows Vist

Table of Contents

1 Getting Started

- 2 Safety Information
- 6 Unique Features
 - 6 - Portable In
 - 6 - USB Direct Recording
 - 6 - Full HD up-scaling
 - 6 - Home Theater Speaker ez Setup
- 6 Accessories
- 7 Introduction
 - 7 - Playable Discs
 - 7 - About the "Ⓞ" Symbol Display
 - 7 - Symbols Used in this Manual
 - 7 - Regional Codes
- 8 Playable file Requirement
- 9 Remote control
- 10 Front panel
- 11 Rear panel

2 Connecting

- 12 Attaching the speakers to the unit
- 13 Positioning the system
- 14 Connections to Your TV
 - 14 - Component Video Connection
 - 15 - HDMI Out Connection
 - 16 - Video Connection
 - 17 - Resolution Setting
- 17 Video Output Resolution
- 18 Optional Equipment Connection
 - 18 - AUX In Connection
 - 18 - AUDIO (PORT. IN) In Connection
 - 18 - Listening to music from your portable player or external device
 - 19 - USB Connection
 - 20 - OPTICAL In connection
 - 20 - Home theater speaker ez setup
- 21 Antenna Connection

3 System Setting

- 22 Adjust the setup settings
 - 22 - OSD Initial language settings - Optional
 - 22 - To display and exit the Setup menu
 - 23 - Language
 - 23 - Display
 - 24 - Audio
 - 25 - Lock (Parental Control)
 - 26 - Others

4 Operating

- 27 Using the Home Menu
- 27 Basic Operations
- 28 Other Operations
 - 28 - Displaying Disc Information on-screen
 - 29 - To display the DVD Menu
 - 29 - To display the DVD title
 - 29 - 1.5 times speed playback
 - 29 - Screen Saver
 - 29 - Starting play from selected time
 - 29 - Resume playback
 - 29 - Changing subtitle code page
 - 30 - Marked Playback
 - 31 - Viewing a PHOTO file
 - 32 - Sleep Timer Setting
 - 32 - Dimmer
 - 32 - Turn off the sound temporarily
 - 32 - Last Scene Memory
 - 32 - System Select - Optional
 - 32 - Adjust the speaker level settings
 - 32 - VOCAL FADER
- 33 Radio Operations
 - 33 - Listening to the radio
 - 33 - Presetting the Radio Stations
 - 33 - Deleting all the saved stations
 - 33 - Deleting a saved station
 - 33 - Improving poor FM reception
- 34 Sound adjustment
 - 34 - Setting the surround mode
- 35 Advanced Operations
 - 35 - Recording to USB

5 Troubleshooting

36 Troubleshooting

6 Appendix

37 Maintenance

37 - Handling the Unit

37 - Notes on Discs

38 Area Code List

39 Language code List

40 Trademarks and Licenses

41 Specifications

1

2

3

4

5

6

Unique Features

1

Getting Started

Portable In

Listen to music from your portable device. (MP3, Notebook, etc)

USB Direct Recording

Records music from CD to your USB device.

Full HD up-scaling

Views Full HD picture quality with simple setup.

Home Theater Speaker ez Setup

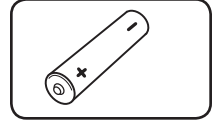
Listen to sounds from TV, DVD and Digital device with vivid 5.1 (2.1 or 2.0) ch mode.

Accessories

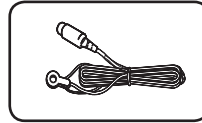
Please check and identify the supplied accessories.



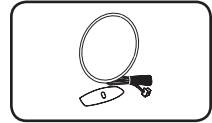
Remote control (1)



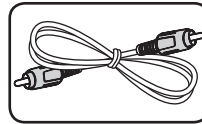
Battery (1)



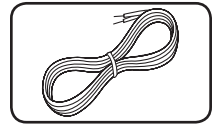
FM antenna (1)



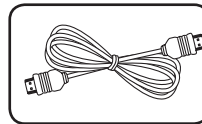
AM antenna (1)



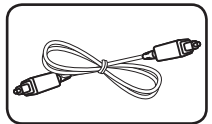
Video cable (1)



Speaker cables (6)



HDMI Cable (1)



Optical cable (1)

Introduction

Playable Discs






This unit plays DVD±R/RW and CD-R/RW that contains audio titles, DivX, MP3, WMA and/or JPEG files. Some DVD±RW/DVD±R or CD-RW/CD-R cannot be played on this unit due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.

| | |
|--|--|
|  | DVD-VIDEO (8 cm / 12 cm disc) Discs such as movies that can be purchased or rented. |
|  | DVD±R (8 cm / 12 cm disc) Video mode and finalized only. |
|  | DVD-RW (8 cm / 12 cm disc) Video mode and finalized only. |
|  | DVD+R: Video mode only Supports the double layer disc also. |
|  | DVD+RW (8 cm / 12 cm disc) Video mode and finalized only. |
|  | Audio CD: Music CDs or CD-R/CD-RW in music CD format that can be purchased. |

About the “⊗” Symbol Display

“⊗” may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific media.

Symbols Used in this Manual

| | |
|---|--|
|  | DVD-Video, DVD±R/RW in Video mode or VR mode and finalized |
|  | Audio CDs |
|  | Video files contained in the USB/Disc |
|  | Audio files contained in the USB/Disc |
|  | Photo files |

! Note

Indicates special notes and operating features.

! Tip

Indicates tip and hints for making the task easier.

! Caution

Indicates cautions for preventing possible damages from abuse.

Regional Codes

This unit has a regional code printed on the rear of the unit. This unit can play only DVD discs labeled same as the rear of the unit or “ALL”.

- Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This number must match your unit's regional code or the disc cannot play.
- If you try to play a DVD with a different regional code from your unit, the message “Check Regional Code” appears on the TV screen.

Playable file Requirement

1

Getting Started

MP3/ WMA music file requirement

MP3/ WMA file compatibility with this unit is limited as follows :

- Sampling frequency : within 32 to 48 kHz (MP3), within 32 to 48 kHz (WMA)
- Bit rate : within 32 to 320 kbps (MP3), 40 to 192 kbps (WMA)
- Support Version : v2, v7, v8, v9
- Maximum files : Under 999
- File extensions : ".mp3"/ ".wma"
- CD-ROM file format : ISO9660/ JOLIET
- We recommend that you use Easy-CD Creator, which creates an ISO9660 file system.

Photo file requirement

Photo file compatibility with this unit is limited as follows :

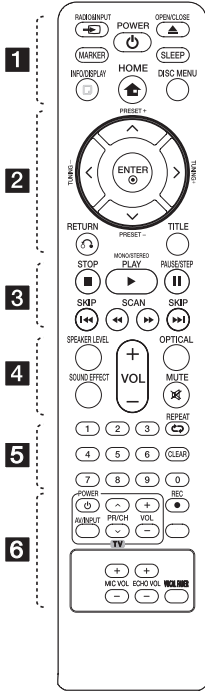
- Max pixel in width : 2 760 x 2 048 pixel
- Maximum files : Under 999
- Some discs may not operate due to a different recording format or the condition of disc.
- File extensions: ".jpg"
- CD-ROM file format : ISO9660/ JOLIET

DivX file requirement

DivX file compatibility with this unit is limited as follows:

- Available resolution: within 720 x 576 (W x H) pixels.
- The file name of the DivX subtitle should be entered within 45 characters.
- If there is impossible code to express in the DivX file, it may be displayed as " _ " mark on the display.
- Frame rate : less than 30 fps.
- If the video and audio structure of recorded files is not interleaved, either video or audio is outputted.
- Playable DivX file : ".avi", ".mpg", ".mpeg", ".divx"
- Playable Subtitle format : SubRip (*.srt/ *.txt), SAMI (*.smi), SubStation Alpha (*.ssa/ *.txt), MicroDVD (*.sub/ *.txt), SubViewer 2.0 (*.sub/ *.txt), Vobsub (*.sub)
- Playable Codec format : "DIVX3.xx", "DIVX4.xx", "DIVX5.xx", "MP4V3", "3IVX".
- Playable Audio format : "AC3", "PCM", "MP3", "WMA".
- Sampling frequency : within 32 to 48 kHz (MP3), within 32 to 48 kHz (WMA)
- Bit rate : within 32 to 320 kbps (MP3), 40 to 192 kbps (WMA)
- For Discs formatted in Live file system, you can not it on this unit.
- If the name of movie file is different from that of the subtitle file, during playback of a DivX file, subtitle may not be display.
- If you play a DivX file differ from DivXspec, it may not operate normally.

Remote control



Battery Installation

Remove the battery cover on the rear of the Remote Control, and insert one (size AAA) battery with \oplus and \ominus matched correctly.

..... **1**

RADIO&INPUT: Changes input sources.

MARKER: Marks play list.

POWER: Switches the unit ON or OFF.

OPEN/CLOSE: Opens and closes the disc drawer.

SLEEP: Sets the System to turn off automatically at a specified time. (Dimmer : The display window will be darken by half)

INFO/DISPLAY: Accesses On-Screen Display.

HOME: Displays the [Home Menu].

DISC MENU: Accesses the menu on a DVD disc.

..... **2**

^ / v / < / > (up/ down/ left/ right): Used to navigate on-screen displays.

PRESET +/-: Selects programme of Radio.

TUNING +/-: Tunes in the desired radio station.

ENTER: Acknowledges menu selection.

Presetting the radio stations.

RETURN: Moves backwards in the menu or exits the setup menu.

TITLE: If the current DVD title has a menu, the title menu appears on the screen. Otherwise, the disc menu may not appear.

..... **3**

STOP: Stops playback.

PLAY, MONO/STEREO: Starts playback. Selects Mono/ Stereo.

PAUSE/STEP: Pauses playback.

SKIP: Goes to the next or previous chapter / track / file.

SCAN: Searches backward or forward.

..... **4**

SPEAKER LEVEL: Sets the sound level of desired speaker.

SOUND EFFECT: Selects a sound effect mode.

VOL +/- (Volume): Adjusts speaker volume.

OPTICAL: Changes input source to optical directly.

MUTE: Mutes the sound.

..... **5**

0-9 numerical buttons: Selects numbered options in a menu.

REPEAT: Selects a play mode. (Repeat/ Random)

CLEAR: Removes a number when setting the password.

..... **6**

TV Control buttons: Controls the TV. (LG TV only)

- You can control the sound level, input source, and power switching of LG TVs as well. Hold POWER (TV) and press PR/ CH (^ / v) button repeatedly until the TV turns on or off.

REC: USB Direct Recording.

*****: This button is not available.

MIC VOL +/-: Adjusts microphone volume.

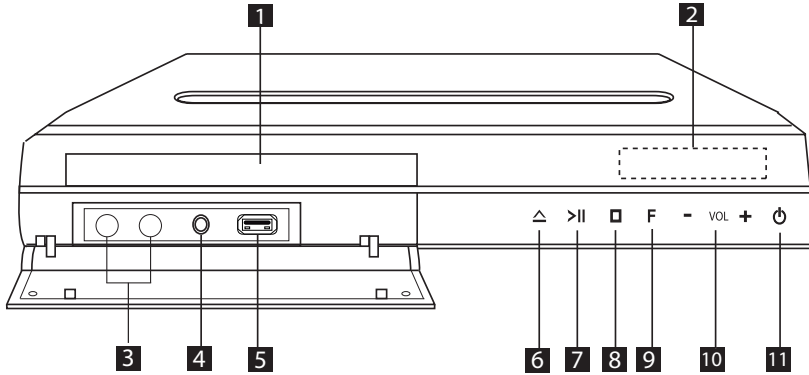
ECHO VOL +/-: Adjusts echo volume.

VOCAL FADER: You can enjoy the function as karaoke, by reducing singer vocal of music in the various source.

Front panel

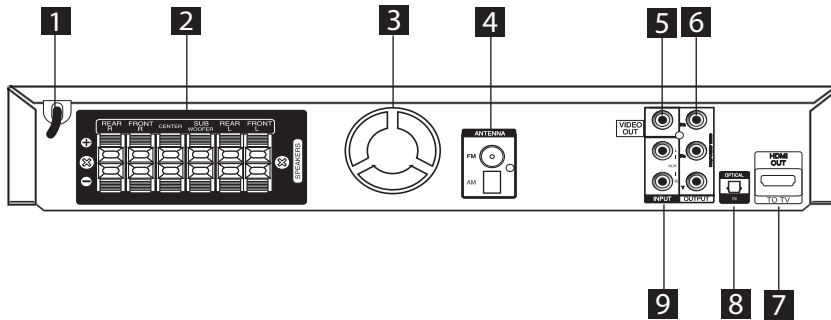


Getting Started



- 1** Disc Tray
- 2** Display window
Shows the current status of the unit.
- 3** Microphone jacks 1/2
- 4** PORT. IN
Connects to a portable player with audio outputs.
- 5** USB Port
Connects a USB device.
- 6** (OPEN/CLOSE)
Opens or closes the disc tray.
- 7** (PLAY/PAUSE)
Starts playback.
Pauses playback temporarily, press again to exit pause mode.
- 8** (STOP)
Stops playback.
- 9** **F** (FUNCTION)
Changes the input source or function.
- 10** **VOL(-/ +)**
Adjusts speaker volume.
- 11** (POWER)
Switches the unit ON or OFF.

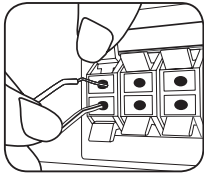
Rear panel



- 1** Power cord
- 2** Speaker connectors
Connects the speaker cables.
- 3** Cooling Fan
- 4** Antenna Connector
FM- Connects the FM wired antenna
AM- Connects the AM loop antenna
- 5** VIDEO OUT
Connects to a TV with video inputs.
- 6** COMPONENT VIDEO (Y P_B P_R) OUTPUT
Connects to a TV with Y P_B P_R inputs.
- 7** HDMI OUT
Connects to TV with HDMI inputs.
(Interface for digital audio and video)
- 8** OPTICAL IN
Connects to optical audio equipment.
- 9** AUX (L/R) INPUT
Connects to an external source with 2 channel audio outputs.

Attaching the speakers to the unit

1. Connect the wires to the unit.
Match each wire's colored band to the same colored connection terminal on the rear of the unit. To connect the cable to the unit, press each plastic finger pad to open the connection terminal. Insert the wire and release the finger pad.



Connect the black stripe of each wire to the terminals marked -(minus) and the other end to the terminals marked + (plus).

2. Connect the wires to the speakers.
Connect the other end of each wire to the correct speaker according to the color coding:

| Color | Speaker | Position |
|--------|------------|--------------------|
| Grey | Rear | Rear right |
| Blue | Rear | Rear left |
| Green | Center | Center |
| Orange | Sub woofer | Any front position |
| Red | Front | Front right |
| White | Front | Front left |

To connect the cable to the speakers, press each plastic finger pad to open the connection terminals on the base of each speaker. Insert the wire and release the finger pad.

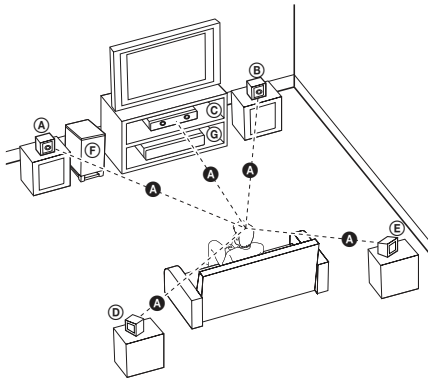
⚠ Caution

- Be careful to make sure children do not put their hands or any objects into the *speaker duct.
*Speaker duct : A hole for plentiful bass sound on speaker cabinet (enclosure).
- The speakers contain magnet parts, so color irregularity may occur on the TV screen or PC monitor screen. Please use the speakers far away from either TV screen or PC monitor.

Positioning the system

The following illustration shows an example of positioning the system. Note that the illustrations in these instructions differ from the actual unit for explanation purposes.

For the best possible surround sound, all the speakers other than the subwoofer should be placed at the same distance from the listening position (A).



- Ⓐ Front left speaker (L)/ Ⓑ Front right speaker (R): Place the front speakers to the sides of the monitor or screen and as flush with the screen surface as possible.
- Ⓒ Center speaker: Place the center speaker above or below the monitor or screen.
- Ⓓ Surround left speaker (L)/ Ⓔ Surround right speaker (R): Place these speakers behind your listening position, facing slightly inwards.
- Ⓕ Subwoofer: The position of the subwoofer is not so critical, because low bass sounds are not highly directional. But it is better to place the subwoofer near the front speakers. Turn it slightly toward the center of the room to reduce the wall reflections.
- Ⓖ Unit

Connections to Your TV

Make one of the following connections, depending on the capabilities of your existing equipment.

Note

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Use only one of the connections described in this manual.
- Please refer to the manuals of your TV, Stereo System or other devices as necessary to make the best connections.

Caution

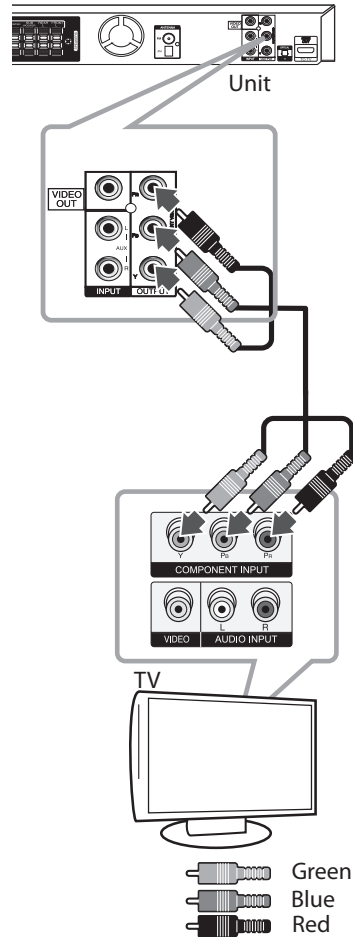
- Make sure the unit is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect your player via your VCR. The image could be distorted by the copy protection system.

2 Connecting

Component Video Connection

Connect the COMPONENT VIDEO OUTPUT jacks on the unit to the corresponding input jacks on the TV using component cables.

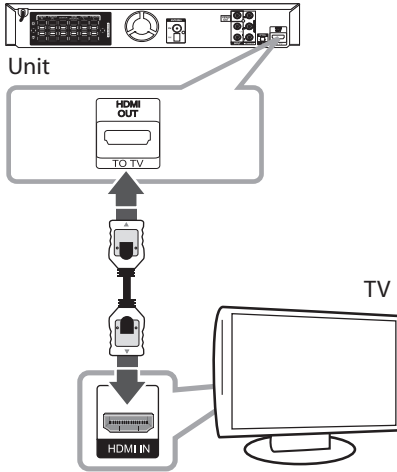
You can hear the sound through the system's speakers.



HDMI Out Connection

If you have a HDMI TV or monitor, you can connect it to this unit using a HDMI cable (Type A, High Speed HDMI™ Cable).

Connect the HDMI OUT jack on the unit to the HDMI IN jack on a HDMI compatible TV or monitor. Set the TV's source to HDMI (refer to TV's Owner's manual).



! Tip

- You can fully enjoy digital audio and video signals together with this HDMI connection.
- When you use HDMI connection, you can change the resolution for the HDMI output. (Refer to "Resolution Setting" on page 17.)

! Note

- If a connected HDMI device does not accept the audio output of the unit, the HDMI device's audio sound may be distorted or may not output.
- When you connect a HDMI or DVI compatible device make sure of the following:
 - Try switching off the HDMI/DVI device and this unit. Next, switch on the HDMI/DVI device and leave it for around 30 seconds, then switch on this unit.
 - The connected device's video input is set correctly for this unit.
 - The connected device is compatible with 720 x 480i (or 576i), 720 x 480p (or 576p), 1 280 x 720p, 1 920 x 1 080i or 1 920 x 1 080p video input.
- Not all HDCP-compatible HDMI or DVI devices will work with this unit.
 - The picture will not be displayed properly with non-HDCP device.
 - This unit does not playback and TV screen is changed to black or green screen or the snow noise may occur on the screen.
- If there is noise or lines on the screen, please check the HDMI cable and use a higher version cable than High Speed HDMI™ Cable.

! Caution

- Changing the resolution when the connection has already been established may result in malfunctions. To solve the problem, turn off the unit and then turn it on again.
- When the HDMI connection with HDCP is not verified, TV screen is changed to black or green screen or the snow noise may occur on the screen. In this case, check the the HDMI connection, or disconnect the HDMI cable.

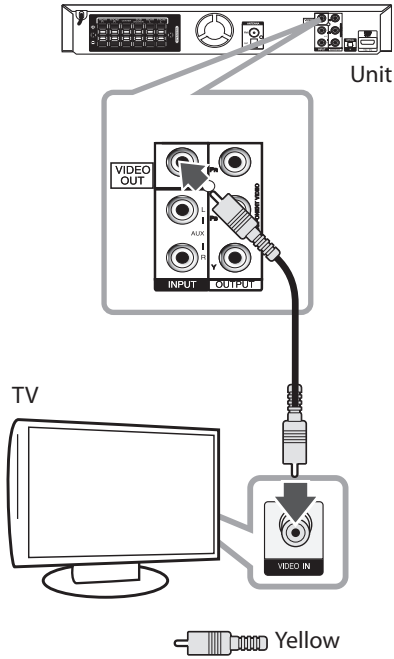
Video Connection

Connect the VIDEO OUT jack on the unit to the video in jack on the TV using a video cable.

You can hear the sound through the system's speakers.

2

Connecting



Resolution Setting

The unit provides several output resolutions for HDMI OUT and COMPONENT VIDEO OUT jacks. You can change the resolution using [Setup] menu.

1. Press **HOME**.
2. Use **</>** to select the [Setup] and press **ENTER**. The [Setup] menu appears.



3. Use **▲/▼** to select [Display] option then press **>** to move to the second level.
4. Use **▲/▼** to select the [Resolution] option then press **>** to move to the third level.
5. Use **▲/▼** to select the desired resolution then press **ENTER** to confirm your selection.

! Note

If your TV does not accept the resolution you have set on the player, you can set resolution to 480p (or 576p) as follows:

Press **STOP** for more than 5 seconds.

Video Output Resolution

Displayed resolution in display window and outputted resolution may differ according to connection type.

[HDMI OUT]: 1 080p, 1 080i, 720p and 480p (or 576p) and 480i (or 576i)

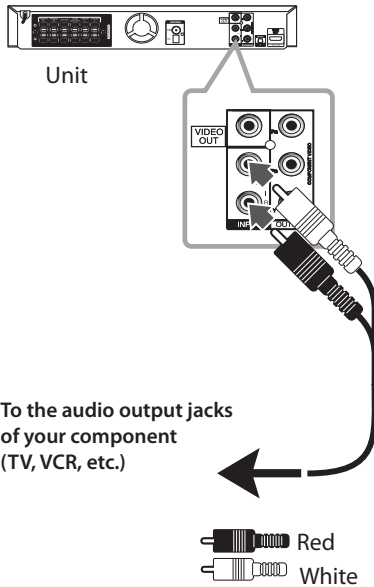
[COMPONENT VIDEO OUT]: 480p (or 576p) and 480i (or 576i)

[VIDEO OUT]: 480i (or 576i)

Optional Equipment Connection

AUX In Connection

Connect an Output of auxiliary device to the AUX (L/R) INPUT Connector.

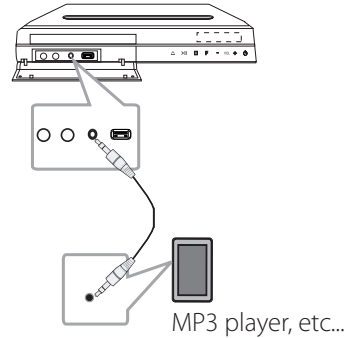


! Note

If your TV has only one output for audio (mono), connect it to the left (white) audio jack on the unit.

AUDIO (PORT. IN) In Connection

Connect an output of portable device (MP3 or PMP etc) to the AUDIO (PORT. IN) input connector.



Listening to music from your portable player or external device

The unit can be used to play the music from many types of portable player or external devices.

1. Connect the portable player to the PORT. IN (PORTABLE IN) connector of the unit.

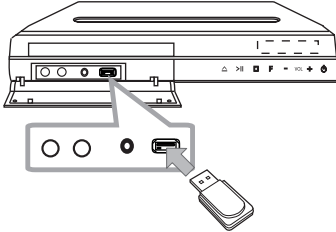
Or

Connect the external device to the AUX connector of the unit.

2. Turn the power on by pressing **(POWER)**.
3. Select the PORTABLE or AUX (L/R) INPUT function by pressing **(RADIO&INPUT)**.
4. Turn on the portable player or external device and start it playing.

USB Connection

Connect the USB port of USB Memory (or MP3 player, etc.) to the USB port on the front of the unit.



Removing the USB Device from the unit

1. Choose a different function mode or press **STOP** twice in a row.
2. Remove the USB device from the unit.

Compatible USB Devices

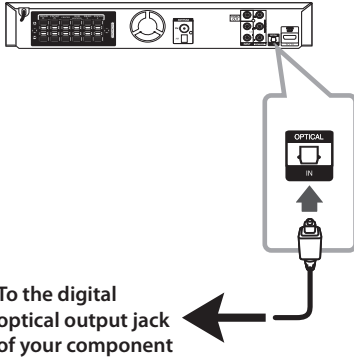
- MP3 Player : Flash type MP3 player.
- USB Flash Drive : Devices that support USB2.0 or USB1.1.
- The USB function of this unit does not support some USB devices.

USB device requirement

- Devices which require additional program installation connected to a computer, are not supported.
- Do not extract the USB device while in operation.
- For a large capacity USB, it may take longer than a few minute to be searched.
- To prevent data loss, back up all data.
- If you use a USB extension cable or USB hub, the USB device is not recognized.
- Using NTFS file system is not supported. (Only FAT(16/32) file system is supported.)
- This unit is not supported when the total number of files is 1 000 or more.
- External HDD, Card readers, Locked devices, or hard type usb devices are not supported.
- USB port of the unit cannot be connected to PC. The unit can not be used as a storage device.

OPTICAL In connection

Connect an optical output of Unit (or Digital Device etc) to the OPTICAL IN connector.



2
Connecting

Home theater speaker ez setup

Listen to sound from TV, DVD and Digital Device with 5.1(2.1 or 2)ch mode. Even in power off mode, if you press **OPTICAL**, then power is on and automatically changed to AUX OPT mode.

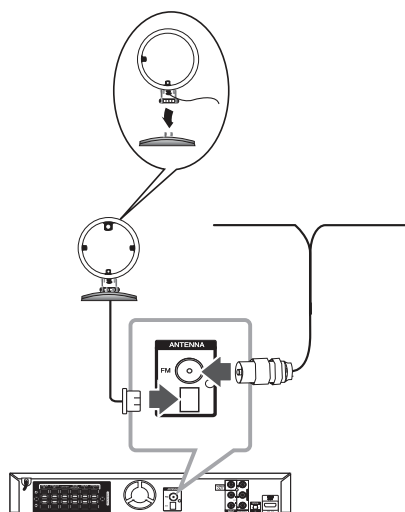
1. Connect the unit's OPTICAL IN jack to jack on optical out of your TV (or Digital Device etc).
2. Select the AUX OPT by using the **OPTICAL**. To select the AUX OPT directly.
3. Listen sound with 5.1(2.1 or 2)ch speaker.
4. To escape from AUX OPT by using the **OPTICAL**. Function is returned to previous one.

Antenna Connection

Connect the supplied FM/AM antenna for listening to the radio.

Connect the AM Loop antenna to the AM antenna connector.

Connect the FM Wire antenna to the FM antenna connector.



! Note

- To prevent noise pickup, keep the AM Loop antenna away from the unit and other components.
- Be sure to fully extend the FM wire antenna. After connecting the FM wire antenna, keep it as horizontal as possible.

Adjust the setup settings

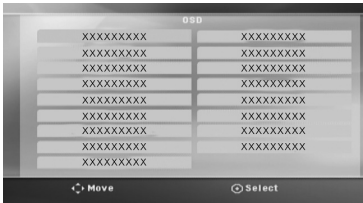
By using the Setup menu, you can make various adjustments to items such as picture and sound.

You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 22 to 26.

OSD Initial language settings - Optional

During the first use of this unit, the initial language setup menu appears on your TV screen. You must complete initial language selection before using the unit. English will be selected as the initial language.

1. Press **POWER** to turn the unit on. The language setup menu will appear on the screen.



2. Use **^ V <>** to select a language then press **ENTER**.
The confirm menu will appear.



3. Use **<>** to select the [Enter] then press **ENTER** to finish the language setup.

To display and exit the Setup menu

1. Press **HOME**.
Displays the [Home Menu].



2. Select an [Setup] by using **<>**.
3. Press **ENTER**.
Displays the [Setup].
4. Press **HOME** or **RETURN** to exit in the [Setup] Menu.

About help menu for Setup

| Menu | Buttons | Operation |
|-------------|----------|---|
| ▲▼ Move | ^ V | Moving to another menu. |
| ◀ Move | < | Moving to previous level. |
| ▶ Move | > | Moving to next level or selecting menu. |
| ↶ Close | ↶ RETURN | To exit the [Setup] menu or [5.1 Speaker Setup]. |
| ⊙ Select | ⊙ ENTER | To confirm menu. |

Language

Menu Language

Select a language for the Setup menu and then on screen display.

Disc Audio / Disc Subtitle / Disc Menu

Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu.

[Original]

Refers to the original language in which the disc was recorded.

[Other]

To select another language, press numeric buttons and then **ENTER** to enter the corresponding 4-digit number according to the language code list on the page 39. If you enter the wrong language code, press **CLEAR**.

[Off (for Disc Subtitle)]

Turn off Subtitle.

Display

TV Aspect

Select which screen aspect to use based on the shape of your TV screen.

[4:3]

Select when a standard 4:3 TV is connected.

[16:9]

Select when a 16:9 wide TV is connected.

Display Mode

The Display Mode setting works only when the TV Aspect mode is set to 4:3.

[Letterbox]

Displays a wide picture with bands on the upper and lower portions of the screen.

[Panscan]

Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit. (If the disc/file is not compatible with Pan Scan, the picture is displayed at Letterbox ratio.)

Resolution

Sets the output resolution of the Component and HDMI video signal. Refer to "Resolution Setting" for details about the resolution (page 17).

[Auto]

If the HDMI OUT jack is connected to TVs providing display information (EDID), automatically selects the resolution best suited to the connected TV. If the COMPONENT VIDEO OUT is only connected, this changes the resolution to 480i (or 576i) as default resolution.

[1080p]

Outputs 1 080 lines of progressive video.

[1080i]

Outputs 1 080 lines of interlaced video.

[720p]

Outputs 720 lines of progressive video.

[480p (or 576p)]

Outputs 480 (or 576) lines of progressive video.

[480i (or 576i)]

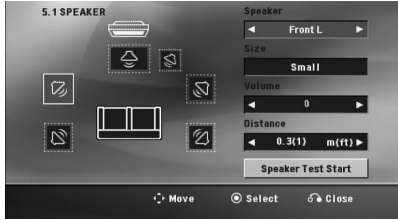
Outputs 480 (or 576) lines of interlaced video.

Audio

5.1 Speaker Setup

Make the following settings for the built-in 5.1 channel surround decoder.

1. Select [5.1 Speaker Setup] on the [Audio] menu.
2. Press **ENTER**.
The [5.1 SPEAKER] appears.



3. Use **<>** to select the desired speaker.
4. Adjust options using **^ V <>** buttons.
5. Returns to the previous menu by pressing **RETURN**.

[Speaker]

Select a speaker that you want to adjust.

! Note

Certain speaker settings are prohibited by the Dolby Digital licensing agreement.

[Size]

Since the speaker settings are fixed, you cannot change the settings.

[Volume]

Adjust the output level of each speaker.

[Distance]

Adjust the distance between each speaker and the listening position.

[Test]

Select [Speaker Test Start] by using the **^ V** and press **ENTER**. Press **ENTER** again to stop. Adjust the volume to match the volume of test signals memorized in the system.

DRC (Dynamic Range Control)

Make the sound clear when the volume is turned down (Dolby Digital only). Set to [On] for this effect.

Vocal

Select [On] to mix karaoke channels into normal stereo.

This function is effective for multi-channel karaoke DVDs only.

HD AV Sync

Sometimes Digital TV encounters a delay between picture and sound. If this happens you can compensate by setting a delay on the sound so that it effectively 'waits' for the picture to arrive: this is called HD AV Sync. Use **▲ ▼** (on the remote control) to scroll up and down through the delay amount, which you can set at anything between 0 and 300m sec.

Semi Karaoke

When a chapter/ title/ track is fully finished, this function shows the score in the screen with a fanfare sound.

[On]

When you finished singing a score will appear on the screen.

[Off]

Fanfare and score do not appears on the screen.



Note

- DVD, DVD Karaoke discs with more than 2 tracks are available discs for the this function.
- When you watch movies, "off" the Semi Karaoke at the SETUP menu or enjoy it without connecting the MIC if the fanfare or score appears during changing a chapter.
- This function operate on the DVD/CD mode.
- The Semi Karaoke function is available only when a microphone is connected.

Lock (Parental Control)

Initial Setting the Area Code:

When you use this unit for the first time, you have to set the Area Code.

1. Select the [Lock] menu and then press **>**.
2. Press **>**.
To access the [Lock] options, you must input the password you have created. Input a password and press **⊙ ENTER**. Enter it again and press **⊙ ENTER** to verify. If you make a mistake before pressing **⊙ ENTER**, press **CLEAR**.
3. Select the first character using **▲ ▼** buttons.
4. Press **⊙ ENTER** and select the second character using **▲ ▼** buttons.
5. Press **⊙ ENTER** to confirm your Area code selection.

Rating

Blocks playback of rated DVDs based on their contents. Not all discs are rated.

1. Select [Rating] on the [Lock] menu then press **>**.
2. Input a password and press **⊙ ENTER**.
3. Select a rating from 1 to 8 using the **▲ ▼** buttons.

[Rating 1-8]

Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.

[Unlock]

If you select unlock, parental control is not active and the disc plays in full.

4. Press **⊙ ENTER** to confirm your rating selection.

Password

You can enter or change password.

1. Select [Password] on the [Lock] menu and then press **>**.
2. Press **⊙ ENTER**.
3. Input a password and press **⊙ ENTER**.
To change the password, press **⊙ ENTER** when the [Change] option is highlighted. Input a password and press **⊙ ENTER**. Enter it again and press **⊙ ENTER** to verify.
4. Press **⏠ HOME** to exit the menu.

! Note

If you forget your password, you can clear it using the following steps:

1. Select the [Setup] menu on the [Home Menu].
2. Input the 6-digit number "210499" and press **⊙ ENTER**. The password is cleared.

Area Code

Enter the code of the area whose standards were used to rate the DVD video disc, based on the list on page 38.

1. Select [Area Code] on the [Lock] menu then press **>**.
2. Input a password and press **⊙ ENTER**.
3. Select the first character using **▲ ▼** buttons.
4. Press **⊙ ENTER** and select the second character using **▲ ▼** buttons.
5. Press **⊙ ENTER** to confirm your Area code selection.

Others

DivX VOD

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

[Register]

Displays the registration code of your player.

[Deregister]

Deactivate your player and display the deactivation code.

! Note

All the downloaded videos from DivX VOD can only be played back on this unit.

Using the Home Menu

1. Press **HOME**.
Displays the [Home Menu].



2. Select an option by using **<>**.
3. Press **ENTER** then selected option menu.
[Music] – Displays [MUSIC] menu.
[Movie] – Start video media's playback or displays the [MOVIE] menu.
[Photo] – Displays [PHOTO] menu.
[Setup] – Displays the [Setup] menu.

! Note

You can not select the [Music], [Movie] or [Photo] option when the USB device is not connected and a disc is not inserted.

Basic Operations

1. Insert the disc by using the **OPEN/CLOSE** or Connect the USB device to the USB port.
2. Press **HOME**.
Displays the [Home Menu].
3. Select an option by using **<>**.

If you select the [Movie], [Photo] or [Music] option when you connect up to two devices, it appears as follows. Select a media then press

! Note



4. Press **ENTER** then selected option menu.

! Note

- For the most Audio CD and DVD-ROM discs, playback starts automatically.
- The unit plays only music file contained in the USB storage device or disc automatically.

| To | Do this |
|--|--|
| Stop | Press ■ STOP . |
| Playback | Press ▶ PLAY, MONO/ STEREO . |
| Pause | Press ⏸ PAUSE/STEP . |
| Frame-by-Frame playback | Press ⏸ PAUSE/STEP repeatedly to play title Frame-by-Frame. (DVD, DivX only) |
| Skipping to the next/ previous chapter/ track/ file | During playback, press ⏮ / ⏭ SKIP to go to the next chapter/ track/ file or to return to the beginning of the current chapter/ track/ file. Press ⏮ SKIP twice briefly to step back to the previous chapter/ track/ file. |
| Locating a point quickly by playing a file in fast forward or fast reverse | During playback, press ⏮ / ⏭ SCAN repeatedly to select the required scan speed. To return to normal speed, press ▶ PLAY, MONO/ STEREO . |
| Playing repeatedly or randomly | Press ↺ REPEAT repeatedly, and the current title, chapter or track will be played back repeatedly or randomly. - DVD : Chapter/ Title/ Off - DivX : Title/ All/ Off - Audio CD/ MP3/ WMA : Track/ All/ Random/ Off |
| Slowing down the playing speed | In the pause mode, press SLOW (⏮ or ⏭) to select the required speed. (DVD, DivX only) The DivX file cannot be slow down reverse playback. |

4

Operating

Other Operations

Displaying Disc Information on-screen

You can display various information about the disc loaded on-screen.

- Press **⏻ INFO/DISPLAY** to show various playback information.
The displayed items differ depending on the disc type or playing status.
- You can select an item by pressing **▲ ▼** and change or select the setting by pressing **<>**.
Title – Current title number/ total number of titles.
Chapter – Current chapter number/ total number of chapters.
Time – Elapsed playing time.
Audio – Selected audio language or channel.
Subtitle – Selected subtitle.
Angle – Selected angle/ total number of angles.

Note

If any button is not pressed for a few seconds, the on-screen display disappears.

To display the DVD Menu

DVD

When you play a DVD which contains several menu, you can select the menu you want using the Menu.

1. Press **DISC MENU**.
The disc's menu appears.
2. Select the menu by using **^ V <>**.
3. Press **▶ PLAY, MONO/STEREO** to confirm.

To display the DVD title

DVD

When you play a DVD which contains several title, you can select the title you want using the Menu.

1. Press **TITLE**.
The disc's title appears.
2. Select the menu by pressing **^ V <>**.
3. Press **▶ PLAY, MONO/STEREO** to confirm.

1.5 times speed playback

DVD

The 1.5 speed allows you to watch the pictures and listen to the sound quicker than playing at a normal speed.

1. During playback, press **▶ PLAY, MONO/STEREO** to play at 1.5 times speed. "▶X1.5" appears on the screen.
2. Press **▶ PLAY, MONO/STEREO** again to exit.

Screen Saver

The screen saver appears when you leave the unit in Stop mode for about five minutes.

Starting play from selected time

DVD MOVIE

To start playing at any chosen time on the file or title.

1. Press **□ INFO/DISPLAY** during playback.
2. Press **^ V** to select the time clock icon and "--:--:" appears.
3. Input the required start time in hours, minutes, and seconds from left to right. If you enter the wrong numbers, press **CLEAR** to remove the numbers you entered. Then input the correct numbers.
For example, to find a scene at 1 hour, 10 minutes, and 20 seconds, enter "11020" by using numerical buttons.
4. Press **⊙ ENTER** to confirm. Playback starts from the selected time.

Resume playback

DVD MOVIE MUSIC ACD

The unit records the point where you pressed the **■ STOP** depending on the disc.

If "■■" (Resume Stop) appears on the screen briefly, press **▶ PLAY, MONO/STEREO** to resume playback (from the scene point).

If you press **■ STOP** twice or unload the disc, "■" (Complete Stop) appears on the screen. The unit will clear the stopped point.

! Note

The resume point may be cleared when a button is pressed (for example; **⏻ (POWER)**, **▲ OPEN/CLOSE**, etc).

Changing subtitle code page

MOVIE

If the subtitle is not displayed properly, you can change the subtitle code page to view the subtitle file properly.

1. During playback, press **□ INFO/DISPLAY** to display the On-Screen display.
2. Use **^ V** to select the [Code Page] option.
3. Use **<>** to select desired code option.
4. Press **↶ RETURN** to exit the On-Screen display.

Marked Playback

MUSIC ACD

The mark function enables you to store your favourite files from any disc or USB device in the unit memory.

1. Select [Music] on the [Home Menu].

Returning to the upper folder.
(MP3/WMA only)

File information will be displayed according to the ID3TAG information on the appropriate music file. (MP3 only)



Selecting all tracks/ files.

Deselecting all tracks/files.

Moving to the previous or next file list.

2. Select a desired music on the [List] by using the $\wedge \vee$ then press **MARKER** to appears the mark on the list.
3. Press \odot **ENTER** or \blacktriangleright **PLAY, MONO/STEREO**. Displays the play mode.
4. Select the play mode by using the $\wedge \vee$ and press \odot **ENTER**.

[Mark Play]

Marked playback.

[Current Play]

Normal playback.

! Note

If you want to select all files on the list, select [Select All] and press \odot **ENTER**.

To delete a Marker

1. Use $\wedge \vee$ to select the track that you wish to erase from the marked file.
2. Press **MARKER**.

To delete all Markers

Use $\wedge \vee <>$ to select [Deselect All] then press \odot **ENTER** in program edit mode.

! Note

The markers are also cleared when the disc or USB device is removed, the unit is switched to power off or the function is switched to others.

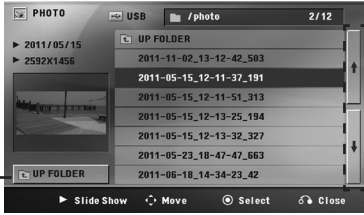
Viewing a PHOTO file

PHOTO

This unit can play discs with photo files.

1. Select [Photo] on the [Home Menu] and press **ENTER**.

Moving to the previous or next file list.



Returning to the upper folder.

2. Press **^ V** to select a folder, and then press **ENTER**.
3. If you want to view a slide show, press **^ V** to highlight a file and press **▶ PLAY, MONO/STEREO**.

About help menu in the [Photo] menu

| Menu | Buttons | Operation |
|---------------------|----------------------------|------------------------------------|
| ▶ Slide Show | ▶ PLAY, MONO/STEREO | Viewing a slide show. |
| ▲▼◀▶ Move | ^ V <> | Moving to another file or content. |
| ◎ Select | ◎ ENTER | Viewing a particular file. |
| ↶ Close | ↶ RETURN | Returning to the [Home Menu]. |

About help menu in the full screen

| Menu | Buttons | Operation |
|-----------------------|-----------------------|--------------------------------|
| Menu | □ INFO/DISPLAY | Displaying the Option menu. |
| ◀/▶ Prev./Next | </> | Moving to another file. |
| ↶ Close | ↶ RETURN | Returning to the [Photo] menu. |

Options while viewing a photo

You can use various options during viewing a photo in full screen.

1. While viewing a photo in full screen, press **□ INFO/DISPLAY** to display the option menu.
2. Select an option using **^ V <>**.



- 1 Current photo/ Total number of photos** – Use **<>** to view previous/next photo.
- 2 Slide Show ▶/||** – Press **◎ ENTER** to start or pause slide show.
- 3 Speed x3/ x2/ x1** – Use **◎ ENTER** to select a delaying speed between photos in a slide show.
- 4 Rotate** – Press **◎ ENTER** to rotate the photo.
- 5 Go to list** – Press **◎ ENTER** to return [Photo] menu.

Sleep Timer Setting

Press **SLEEP** one or more times to select delay time between 10 and 180 minutes, after the unit will turn off.

To check the remaining time, press **SLEEP**.

To cancel the sleep function, press **SLEEP** repeatedly until "SLEEP 10" appears, and then press **SLEEP** once again while "SLEEP 10" is displayed.

! Note

You can check the remaining time before the Unit turns off.

Press **SLEEP** The remaining time appears in the display window.

Dimmer

Press **SLEEP** once. The display window will be darken by half. To cancel it, press **SLEEP** repeatedly until dim off.

Turn off the sound temporarily

Press **MUTE** to mute your unit.

You can mute your unit in order, for example, to answer the telephone, appears the MUTE in the display window.

Last Scene Memory

DVD

This unit memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the unit or switch off the unit. If you load a disc that has the scene memorized, the scene is automatically recalled.

System Select - Optional

You must select the appropriate system mode for your TV system. Press and hold **II PAUSE/STEP** for more than five seconds to be able to select a system in the [Home Menu].

! Note

If the USB device is connected or a disc is inserted, this function is not operated.

Adjust the speaker level settings

You can adjust the sound level of each speaker.

1. Press **SPEAKER LEVEL** repeatedly to select a desired speaker to set.
2. Press **VOL -/+** to adjust the sound level of the selected speaker while the level setting menu is displayed on the display window.
3. Repeat and adjust the sound level of the other speakers.

VOCAL FADER

You can enjoy the function as karaoke, by reducing singer vocal of music in the various source. (MP3/WMA/ CD/ etc.) Press the **VOCAL FADER**, and "FADE ON" will appear in display window.

To cancel it, press **VOCAL FADER** again.

The quality of the **VOCAL FADER** may be different depending on the recording conditions of music files.


! Note

- This function is available to use only when a microphone is connected.
- It is not available on the MONO source.

Radio Operations

Be sure that both FM/AM aerials are connected.
(Refer to the page 21.)




Listening to the radio

1. Press  **RADIO&INPUT** until FM/AM appears in the display window.
The last received station is tuned in.
2. Press and hold **TUNING (-/+)** for about two seconds until the frequency indication starts to change, then release. Scanning stops when the unit tunes in a station.
or
Press **TUNING (-/+)** repeatedly.
3. Adjust the volume by pressing **VOL (+/-)** on the front panel or by pressing **VOL (+/-)** on the remote control repeatedly.

Presetting the Radio Stations

You can preset 50 stations for FM/AM.

Before tuning, make sure that you have turned down the volume.

1. Press  **RADIO&INPUT** until FM/AM appears in the display window.
2. Select the desired frequency by using **TUNING (-/+)**.
3. Press  **ENTER** a preset number will flash in the display window.
4. Press **PRESET (-/+)** to select the preset number you want.
5. Press  **ENTER**.
The station is stored.
6. Repeat the steps 2 to 5 to store other stations.


Deleting all the saved stations

1. Press and hold **CLEAR** for two seconds.
"ERASE ALL" will flash up on the unit display.
2. Press **CLEAR** to erase all saved of the radio stations.

Deleting a saved station

1. Press **PRESET - / +** to Select a preset number you want to delete.
2. Press **CLEAR**, the preset number will blink in the display window.
3. Press **CLEAR** again, to delete the selected preset number.

Improving poor FM reception

Press  **PLAY, MONO/STEREO** on the remote control. This will change the tuner from stereo to mono and usually improve the reception.

Sound adjustment

Setting the surround mode

This system has a number of pre-set surround sound fields. You can select a desired sound mode by using **SOUND EFFECT**.

You can change the **SOUND EFFECT** using <> arrow key while the sound effect information is displayed on.

The displayed items for the equalizer maybe different depending on sound sources and effects.

| On Display | Description |
|--------------------------------|--|
| NAT PLUS | The NAT PLUS is Natural Plus sound effect. You can enjoy the natural sound effect same as a 5.1-channel. |
| NATURAL | You can enjoy comfortable and natural sound. |
| POP CLASSIC JAZZ ROCK | This program lends an enthusiastic atmosphere to the sound, giving you the feeling you are at an actual rock pop, jazz or classic concert. |
| BASS | The BASS is Bass Blast. During playback, reinforce the treble, bass and surround sound effect. |
| LOUDNESS | Improves the bass and treble sound. |
| BYPASS | You can enjoy the sound without equalizer effect. |

Note

- In some of surround modes, some speakers, there's no sound or low sound. It depends on the mode of surround and the source of audio, it is not defective.
- You may need to reset the surround mode, after switching the input, sometimes even after the sound track changed.
- This function is not operated when the microphone is connected to the unit.

Advanced Operations

Recording to USB

You can record music or sound source to USB device by connecting it to the port on the unit.

1. Connect the USB device to the unit.
2. Select a mode in which you want to record. Play back a sound source first.
3. Start the recording by pressing **REC**.
4. To stop recording, press **STOP**.

[All tracks/ files recording]

Record to USB in stop or play mode.

[Program list recording]

After marking desired file(s) and you can record it to USB (Refer to the page 30).

It'll be stored as follows.

| | |
|--|---|
| Audio CD | <pre> CD_REC ├── TRK_001 ├── TRK_002 ├── ⋮ </pre> |
| MP3/ WMA | <pre> FILE_REC ├── 001_ABC(File name) ├── 002_DEF(File name) ├── ⋮ </pre> |
| The other sources (Tuner, AUX, Portable) | <pre> EXT_REC ├── AUDIO_001 ├── AUDIO_002 ├── ⋮ </pre> |

! Note

- You can check the recording percentage rate for the USB record on the screen during the recording. (Audio CD or MP3/ WMA CD only)
- During recording MP3/WMA, there is no sound.
- When you stop recording during playback, the file that has been recorded at that time will be stored. (Audio CD only)
- Do not remove the USB device or turn off the unit during USB recording. If not, an incomplete file may be made and not deleted on PC.
- Recording through microphones is not available.
- If USB recording does not work, the message like "NO USB", "ERROR", "USB FULL" or "NO REC" is displayed on the display window.
- Multi card reader device or external HDD can not be used for USB recording.
- A file is recorded by 128 Mbyte (about 2 hours) when you record for a long term. There are recorded less than 4 files.
- When you stop recording during playback, the file will not be stored.
- In the state CD-G, DTS disc USB record is not operated.
- The files in the sub-folders are not recorded during all track recording.
- You may not record more than 999 files.
- The numbering of the recording file is entered from the lowest number. So if you delete some of the recording files, the next recording file could be the lowest number among them.

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offense. This equipment should not be used for such purposes.

Be responsible
Respect copyrights.

Troubleshooting

| PROBLEM | CORRECTION |
|--|--|
| No power | Plug the power cord into the wall outlet securely. |
| No picture | Select the appropriate video input mode on the TV so the picture from the unit appears on the TV screen. |
| | Connect the video cables securely to both the TV and unit. |
| There is little or no sound | Select the correct input mode of the unit so you can hear the sound from the unit. |
| | Connect the audio cables into the connection terminals correctly. |
| | Replace with a new audio cable. |
| The DVD picture quality is poor | Clean the disc using a soft cloth with outward strokes. |
| A DVD/CD will not play | Insert a disc. |
| | Insert a playable disc (check the disc type, colour system and regional code). |
| | Place the disc with the label or printed side facing upwards. |
| | Enter your password or change the rating level. |
| Humming noise heard while a DVD or CD is playing | Clean the disc using a soft cloth with outward strokes. |
| | Move unit and audio components further away from your TV. |
| Radio stations can't be tuned in properly | Check the antenna connection and adjust its position. |
| | Attach an external aerial if necessary. |
| | Tune to the station manually. |
| | Preset some radio stations, see page 33 for details. |
| The remote control doesn't work well / at all | The remote is not pointed directly at the unit. Point the remote directly at the unit. |
| | The remote is too far from the unit. Use the remote within 23 feet (7m) of the unit. |
| | There is an obstacle in the path between the remote control and the unit. Remove the obstacle. |
| | The battery in the remote control are flat. Replace the battery with new ones. |

Maintenance

Handling the Unit

When shipping the unit

Please save the original shipping carton and packing materials. If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory.

Keeping the exterior surfaces clean

- Do not use volatile liquids such as insecticide spray near the unit.
- Wiping with strong pressure may damage the surface.
- Do not leave rubber or plastic products in contact with the unit for a long period of time.

Cleaning the unit

To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzene, or thinner, as these might damage the surface of the unit.

Maintaining the Unit

The unit is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished. For details, please contact your nearest authorized service center.

Notes on Discs

Handling Discs

Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface. Never stick paper or tape on the disc.

Storing Discs

After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight.

Cleaning Discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center to out.

Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

Area Code List

Choose an area code from this list.

| Area | Code | Area | Code | Area | Code | Area | Code |
|----------------|------|---------------|------|--------------------|------|-----------------|------|
| Afghanistan | AF | Fiji | FJ | Monaco | MC | Singapore | SG |
| Argentina | AR | Finland | FI | Mongolia | MN | Slovak Republic | SK |
| Australia | AU | France | FR | Morocco | MA | Slovenia | SI |
| Austria | AT | Germany | DE | Nepal | NP | South Africa | ZA |
| Belgium | BE | Great Britain | GB | Netherlands | NL | South Korea | KR |
| Bhutan | BT | Greece | GR | Antilles | AN | Spain | ES |
| Bolivia | BO | Greenland | GL | New Zealand | NZ | Sri Lanka | LK |
| Brazil | BR | Hong Kong | HK | Nigeria | NG | Sweden | SE |
| Cambodia | KH | Hungary | HU | Norway | NO | Switzerland | CH |
| Canada | CA | India | IN | Oman | OM | Taiwan | TW |
| Chile | CL | Indonesia | ID | Pakistan | PK | Thailand | TH |
| China | CN | Israel | IL | Panama | PA | Turkey | TR |
| Colombia | CO | Italy | IT | Paraguay | PY | Uganda | UG |
| Congo | CG | Jamaica | JM | Philippines | PH | Ukraine | UA |
| Costa Rica | CR | Japan | JP | Poland | PL | United States | US |
| Croatia | HR | Kenya | KE | Portugal | PT | Uruguay | UY |
| Czech Republic | CZ | Kuwait | KW | Romania | RO | Uzbekistan | UZ |
| Denmark | DK | Libya | LY | Russian Federation | RU | Vietnam | VN |
| Ecuador | EC | Luxembourg | LU | Saudi Arabia | SA | Zimbabwe | ZW |
| Egypt | EG | Malaysia | MY | Senegal | SN | | |
| El Salvador | SV | Maldives | MV | | | | |
| Ethiopia | ET | Mexico | MX | | | | |

Language code List

Use this list to input your desired language for the following initial settings: [Disc Audio], [Disc Subtitle] and [Disc Menu].

| Language | Code | Language | Code | Language | Code | Language | Code |
|-----------------|------|------------------|------|----------------|------|------------|------|
| Afar | 6565 | French | 7082 | Lithuanian | 7684 | Sindhi | 8368 |
| Afrikaans | 6570 | Frisian | 7089 | Macedonian | 7775 | Singhalese | 8373 |
| Albanian | 8381 | Galician | 7176 | Malagasy | 7771 | Slovak | 8375 |
| Ameharic | 6577 | Georgian | 7565 | Malay | 7783 | Slovenian | 8376 |
| Arabic | 6582 | German | 6869 | Malayalam | 7776 | Spanish | 6983 |
| Armenian | 7289 | Greek | 6976 | Maori | 7773 | Sudanese | 8385 |
| Assamese | 6583 | Greenlandic | 7576 | Marathi | 7782 | Swahili | 8387 |
| Aymara | 6588 | Guarani | 7178 | Moldavian | 7779 | Swedish | 8386 |
| Azerbaijani | 6590 | Gujarati | 7185 | Mongolian | 7778 | Tagalog | 8476 |
| Bashkir | 6665 | Hausa | 7265 | Nauru | 7865 | Tajik | 8471 |
| Basque | 6985 | Hebrew | 7387 | Nepali | 7869 | Tamil | 8465 |
| Bengali; Bangla | 6678 | Hindi | 7273 | Norwegian | 7879 | Telugu | 8469 |
| Bhutani | 6890 | Hungarian | 7285 | Oriya | 7982 | Thai | 8472 |
| Bihari | 6672 | Icelandic | 7383 | Punjabi | 8065 | Tonga | 8479 |
| Breton | 6682 | Indonesian | 7378 | Pashto, Pushto | 8083 | Turkish | 8482 |
| Bulgarian | 6671 | Interlingua | 7365 | Persian | 7065 | Turkmen | 8475 |
| Burmese | 7789 | Irish | 7165 | Polish | 8076 | Twi | 8487 |
| Byelorussian | 6669 | Italian | 7384 | Portuguese | 8084 | Ukrainian | 8575 |
| Chinese | 9072 | Japanese | 7465 | Quechua | 8185 | Urdu | 8582 |
| Croatian | 7282 | Kannada | 7578 | Rhaeto-Romance | 8277 | Uzbek | 8590 |
| Czech | 6783 | Kashmiri | 7583 | Rumanian | 8279 | Vietnamese | 8673 |
| Danish | 6865 | Kazakh | 7575 | Russian | 8285 | Volapük | 8679 |
| Dutch | 7876 | Kirghiz | 7589 | Samoan | 8377 | Welsh | 6789 |
| English | 6978 | Korean | 7579 | Sanskrit | 8365 | Wolof | 8779 |
| Esperanto | 6979 | Kurdish | 7585 | Scots Gaelic | 7168 | Xhosa | 8872 |
| Estonian | 6984 | Laothian | 7679 | Serbian | 8382 | Yiddish | 7473 |
| Faroese | 7079 | Latin | 7665 | Serbo-Croatian | 8372 | Yoruba | 8979 |
| Fiji | 7074 | Latvian, Lettish | 7686 | Shona | 8378 | Zulu | 9085 |
| Finnish | 7073 | Lingala | 7678 | | | | |

Trademarks and Licenses



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



HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.



"DVD Logo" is a trademark of DVD Format/Logo Licensing Corporation.



DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.



Manufactured under license under U.S. Patent Nos: 5,956,674; 5,974,380; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS, the Symbol, & DTS and the Symbol together are registered trademarks & DTS Digital Surround and the DTS logos are trademarks of DTS, Inc. Product includes software. © DTS, Inc. All Rights Reserved.




What is SIMPLINK?

Some functions of this unit are controlled by TV's remote control when this unit and LG TV with SIMPLINK are connected through HDMI connection. Controllable functions by LG TV's remote control; Play, Pause, Scan, Skip, Stop, Power Off, etc.

- Refer to the TV owner's manual for the details of SIMPLINK function.
- LG TV with SIMPLINK function has the logo as shown above.
- Use a higher version cable than High Speed HDMI™ Cable.

Specifications

| General | |
|------------------------|---|
| Power requirements | Refer to main label. |
| Power consumption | Refer to main label. |
| Dimensions (W x H x D) | 360 x 60.5 x 297 mm without foot |
| Net Weight (Approx.) | 2.7 kg |
| Operating temperature | 41 °F to 95 °F (5 °C to 35 °C) |
| Operating humidity | 5 % to 90 % |
| Bus Power Supply (USB) | DC 5 V  500 mA |

| Inputs/ Outputs | |
|-------------------------|---|
| VIDEO OUT | 1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1 |
| COMPONENT VIDEO OUT | (Y) 1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2 |
| HDMI OUT (video/audio): | 19 pin (Type A, HDMI™ Connector) |
| ANALOG AUDIO IN | 2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 1 |
| DIGITAL IN (OPTICAL): | 3 V (p-p), Optical jack x 1 |
| PORT. IN | 0.5Vrms (3.5 mm stereo jack) |

| Amplifier | | |
|---------------|-----------------------------|-------------------------------|
| Stereo mode | 141 W + 141 W (3 Ω at 1kHz) | |
| Surround mode | Front | 141 W + 141 W (3 Ω at 1 kHz) |
| | Center | 141 W (3 Ω at 1 kHz) |
| | Surround | 141 W + 141 W (3 Ω at 1 kHz)) |
| | Subwoofer | 145 W (3 Ω at 60 Hz) |

| Tuner | |
|-----------------|--|
| FM Tuning Range | 87.5 to 108.0 MHz or 87.50 to 108.00 MHz |
| AM Tuning Range | 522 to 1 620 kHz, 520 to 1 710 kHz or 522 to 1 710 kHz |

| Front Speaker | |
|----------------------------|------------------|
| Type | 1 way 1 speaker |
| Impedance Rated | 3 Ω |
| Input Power | 141 W |
| Max. Input Power | 282 W |
| Net Dimensions (W x H x D) | 88 x 197 x 79 mm |
| Net Weight | 0.6 kg |

| Rear Speaker | |
|----------------------------|------------------|
| Type | 1 way 1 speaker |
| Impedance Rated | 3 Ω |
| Input Power | 141 W |
| Max. Input Power | 282 W |
| Net Dimensions (W x H x D) | 88 x 197 x 79 mm |
| Net Weight | 0.6 kg |

| Centre Speaker | |
|----------------------------|------------------|
| Type | 1 way 1 speaker |
| Impedance Rated | 3 Ω |
| Input Power | 141 W |
| Max. Input Power | 282 W |
| Net Dimensions (W x H x D) | 300 x 88 x 64 mm |
| Net Weight | 0.5 kg |

| Passive Subwoofer | |
|----------------------------|--------------------|
| Type | 1 Way 1 Speaker |
| Impedance Rated | 3 Ω |
| Input Power | 145 W |
| Max. Input Power | 290 W |
| Net Dimensions (W x H x D) | 133 x 352 x 325 mm |
| Net Weight | 4.8 kg |

Design and specifications are subject to change without notice.

