



OWNER'S MANUAL

DVD Home Theater System

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

MODEL

LHD647 (LHD647, S67T2-S, S67S2-S, S67T2-C, S67T2-W)

Safety Information



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.

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

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

CAUTION: Do not use high voltage products around this product. (ex. Electrical swatter) This product may malfunction due to electrical shock.

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 should 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

The Power Plug is the disconnecting device. In case of an emergency, the Power Plug must remain readily accessible.

Check the specification page of this owner's manual to be certain of the current requirements.

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 device, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the device, 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 device.

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)

NOTICE: For safety marking information including product identification and supply ratings, please refer to the main label on the bottom or the other surface of the product.

CAUTION: No naked flame sources, such as lighted candles, should be placed on the apparatus.

For models using a battery

This device is equipped with a portable battery or accumulator.

CAUTION: Risk of fire or explosion if the battery is replaced by an incorrect type.

For models using a built-in battery

Do not store or transport at pressures lower than 11.6 kPa and at above 15,000 m altitude.


- replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types);
- disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion;
- leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and
- a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Symbols

~	Refers to alternating current(AC).
≡	Refers to direct current(DC).
⏏	Refers to class II equipment.
⏻	Refers to stand-by.
I	Refers to "ON" (power).
⚡	Refers to dangerous voltage.

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Unique Features

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.

BLUETOOTH®

Listens to music stored on your **Bluetooth** device.

Introduction

Playable Discs

This unit plays DVD±R/RW and CD-R/RW that contains audio titles, 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 and finalized



Audio CDs



Video files contained in the USB/Disc



Audio files contained in the USB/Disc



Photo files contained in the USB/Disc



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 unit. This unit can play only DVD discs labeled same as 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

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.
- 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 Vista)

The DTS is not supported. In case of DTS audio format, audio is not output.

Photo file requirement

Photo file compatibility with this unit is limited as follows :

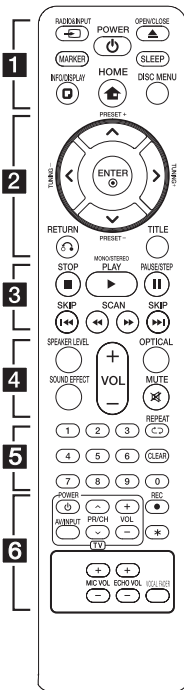
- Max pixel in width : 2760 x 2048 pixel
- Maximum files : Under 999
- Some discs may not operate due to a different recording format or the condition of disc.
- File extensions: ".jpg"
- CD-ROM file format : ISO9660/ JOLIET

Video file requirement

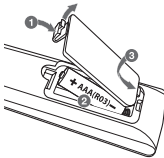
Video file compatibility with this unit is limited as follows :

- Available resolution: within 720 x 576 (W x H) pixels.
- The file name of the Video subtitle should be entered within 45 characters.
- If there is impossible code to express in the Video 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 Video file : ".avi", ".mpg", ".mpeg"
- 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 : "Xvid", "MPEG-1", "MPEG-2"
- 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 Video file, subtitle may not be display.
- If you play a Xvid file differ from Xvid spec, it may not operate normally.
- If you play GMC video file which is more than 1-warp point, video playback screen will not smooth.

Remote control



Replacement of battery



Remove the battery cover on the rear of the remote control, and insert the battery with + and - matched correctly.

1 **RADIO&INPUT** : Selects the function and input source.

MARKER : Marks play list.

POWER : Switches the unit ON or OFF.

OPEN/CLOSE : Opens and closes the disc tray.

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

INFO/DISPLAY : Accesses On-Screen Display.

HOME : Displays the [Home Menu].

DISC MENU : Accesses the menu on a DVD disc.

2 **ENTER** : Acknowledges menu selection.

Δ / ∇ / < / > (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.

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.

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)

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)

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 **TV** and press **PR/CH** (**Δ / ∇**) button repeatedly until the TV turns on or off.

REC : USB Direct Recording.

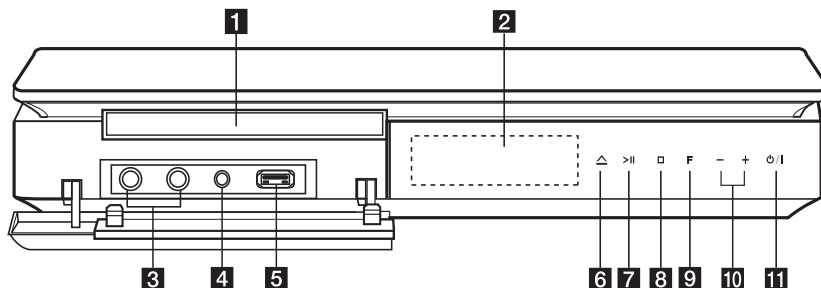
***** : This button is not available.

MIC VOL +/- (Microphone Volume) : Adjusts microphone volume.

ECHO VOL +/- (Volume) : Adjusts echo volume.

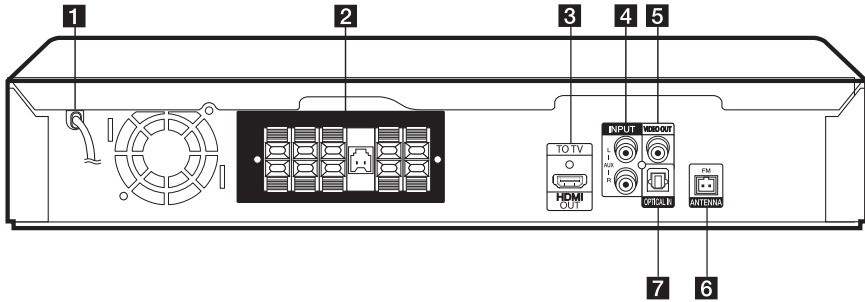
VOCAL FADER : You can enjoy the function as karaoke, by reducing singer vocal of music in the various source.

Front panel



- | | |
|--|--|
| <p>1 Disc Tray</p> <p>2 Display window
Shows the current status of the unit.</p> <p>3 Microphone jacks 1/2</p> <p>4 PORT. IN
Connects to a portable player with audio outputs.</p> <p>5 USB Port
Connects a USB device.</p> <p>6 (Open/Close)
Opens or closes the disc tray.</p> | <p>7 (Play/Pause)
- Starts playback.
- Pauses playback temporarily, press again to exit pause mode.</p> <p>8 (Stop)
Stops playback.</p> <p>9 F (Function)
Changes the input source or function.</p> <p>10 -/+ (Volume)
Adjusts speaker volume.</p> <p>11 (Standby/On)
Switches the unit ON or OFF.</p> |
|--|--|

Rear panel

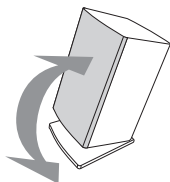


- 1** Power cord
- 2** Speaker connectors
Connects the speaker cables.
- 3** **HDMI OUT TO TV**
Connects to TV with HDMI inputs.
(Interface for digital audio and video)
- 4** **AUX (L/R) INPUT**
Connects to an external source with 2 channel audio outputs.
- 5** **VIDEO OUT**
Connects to a TV with video inputs.
- 6** **ANTENNA FM**
FM- Connects the FM wired antenna.
- 7** **OPTICAL IN**
Connects to optical audio equipment.

Spekaer Installation

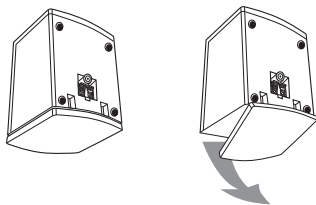
A. Stand type

You can adjust angle of speaker.



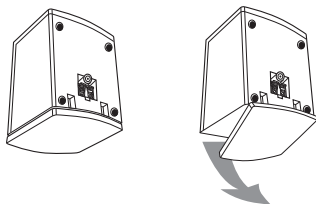
- Separates stand

Separate the stand from the speaker as shown below.

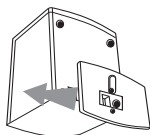


B. Wall type (Mounting the speakers to a wall)

1. Separate the stand from the speaker.



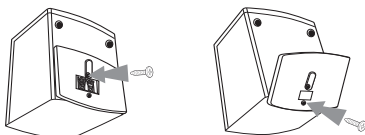
2. Attach the stand to the speaker as shown below.



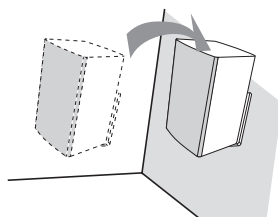
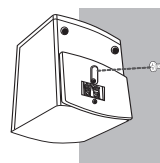
3. You can adjust angle of speaker.



4. Fix the stand to the speaker by rotating the screw.



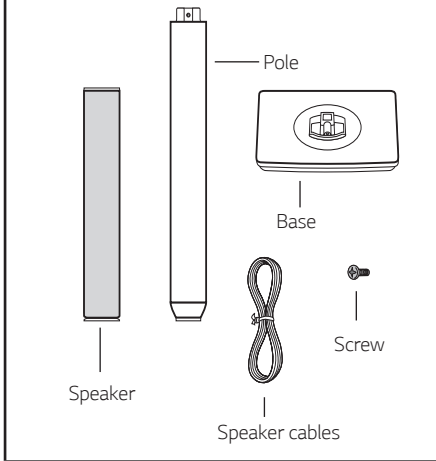
5. Drive 1 screw in the wall for the speaker and then hook the speaker over there.



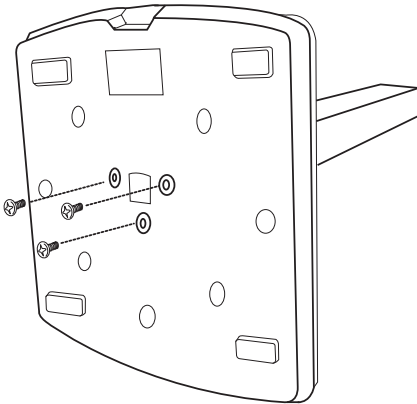
Assembling the speaker

Before connecting the speakers, assemble the speakers. Please check the items for assembling the speakers.

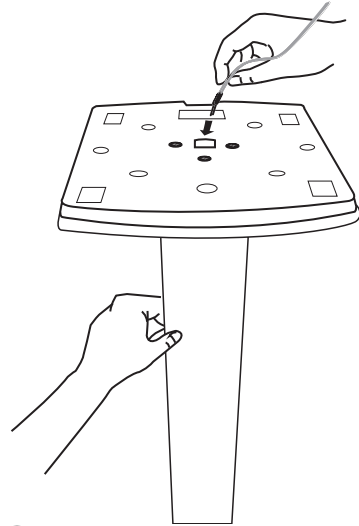
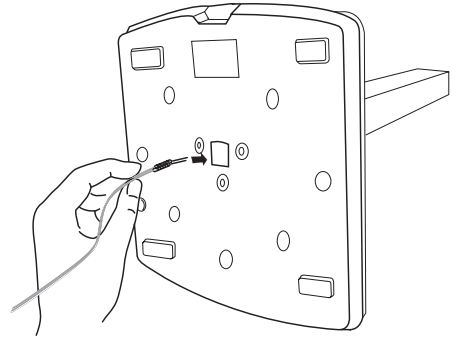
Preparation



1. Attach the pole to the base, then secure the connection with a supplied screw.



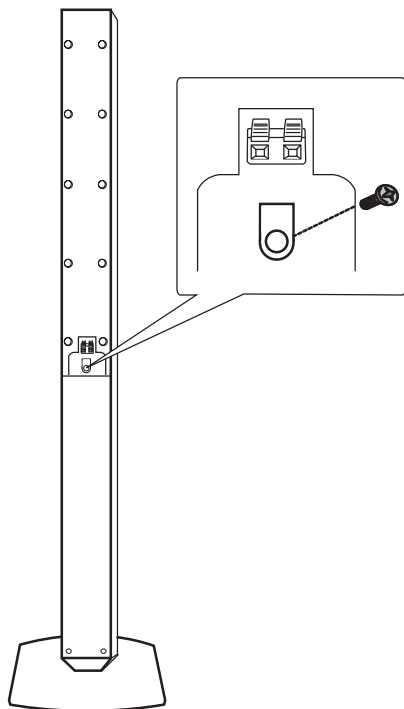
2. Draw the speaker cord through the hole on the base.



Note

Make sure speaker cable unfolded or in straight condition before insert it to the hole.

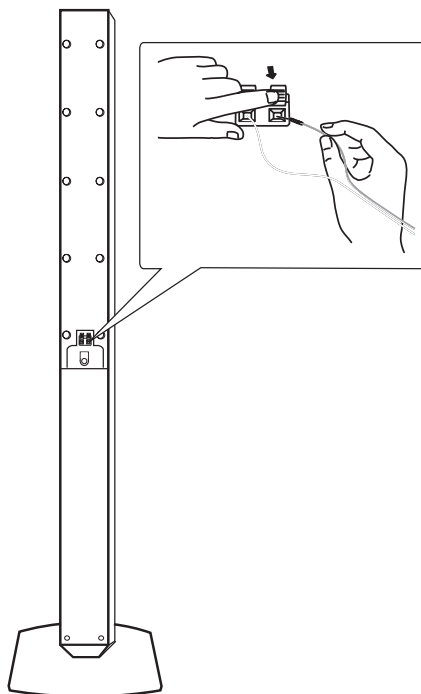
3. Attach the speakers to the speaker stands by rotating the screws.



Note

Do not catch the speaker cord between speaker and the pole.

4. Connect the speaker wire to the terminal on the speaker. Make sure the wire marked black goes in to the terminal marked "-" (minus) and the other wire goes in to the terminal marked "+" (plus).



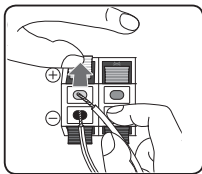
Caution

Be careful that the speaker does not fall down. Otherwise it may result in the speaker malfunction and cause personal injury and/or property damage.

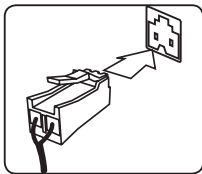


Attaching the speakers to the unit

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).
Connect a woofer cord to the player. When connecting a woofer cord to the player, insert the connector until it clicks.



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	Subwoofer	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.



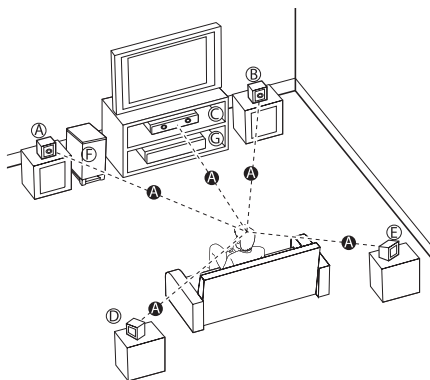
Caution

- 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).
- Place the center speaker at a safe distance from the child's reach. Otherwise it may result in the speaker falling down and causing personal injury and/or property damage.
- 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.
- Before using the subwoofer, remove the protective vinyl.

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

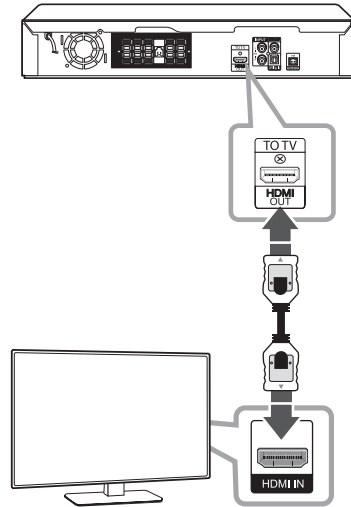
- Make sure the unit is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect your player via your VCR. The image could be distorted by the copy protection system.

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 19.)

! 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 HDMI connection, or disconnect the HDMI cable.

! 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), 1280 x 720p, 1920 x 1080i or 1920 x 1080p 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.
- If you use **Bluetooth** or AUX-OPT Function of the unit, the audio is not output to HDMI.

What is SIMPLINK?



Some functions of this unit are controlled by the TV's remote control when this unit and LG TV's with SIMPLINK are connected through HDMI connection.

Controllable functions by LG TV's remote control; Power on/off, volume up/down, mute, etc.

Refer to the TV owner's manual for the details of SIMPLINK function.

LG TV's with SIMPLINK function has the logo as shown above.

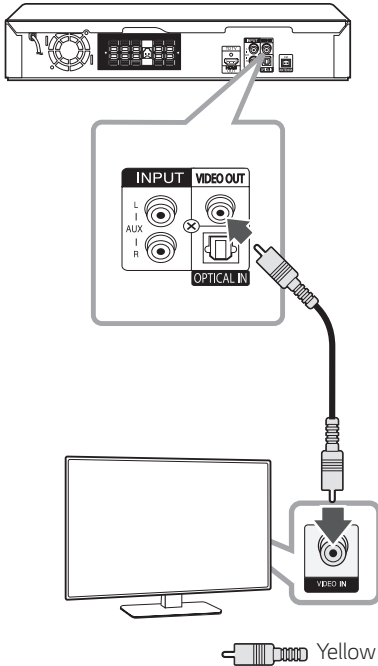
! Note

- Depending on the disc type or playing status, some SIMPLINK operation may differ from your purpose or not work.
- The function is automatically changed to optical when you change the speaker setting of simplink to external, no matter what kind of the function you are using.

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.



Resolution Setting

The unit provides several output resolutions for HDMI OUT.

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 **^/v** to select [Display] option then press **>** to move to the second level.
4. Use **^/v** to select the [Resolution] option then press **>** to move to the third level.
5. Use **^/v** 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.

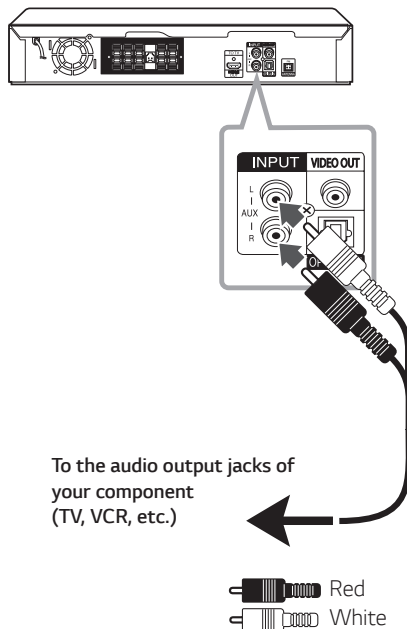
[HDMI OUT] : 1080p, 1080i, 720p and 480p (or 576p) and 480i (or 576i)

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

Optional Equipment Connection

AUX (L/R) INPUT Connection

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

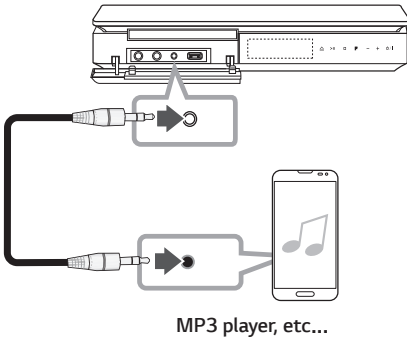


! Note

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

PORT. IN (Portable Input) Connection

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

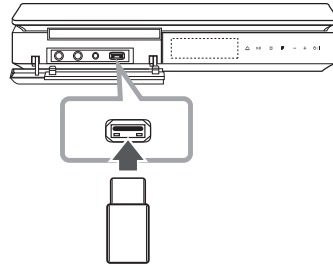
Or

Connect the external device to the AUX (L/R) INPUT connector of the unit.

2. Turn the power on by pressing .
3. Select the PORTABLE or AUX 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.



Note

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

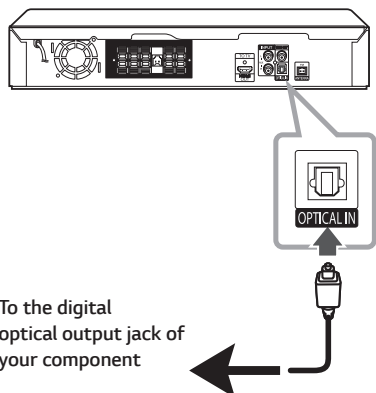
- MP3 Player : Flash type MP3 player.
- USB Flash Drive : Devices that support USB2.0 or USB1.1.
- The USB function of this unit does not support some USB devices.

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 1000 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.
- Some USB may not work with this unit.

OPTICAL IN connection

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



To the digital optical output jack of your component

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** on the remote control to select the AUX OPT directly.

Or

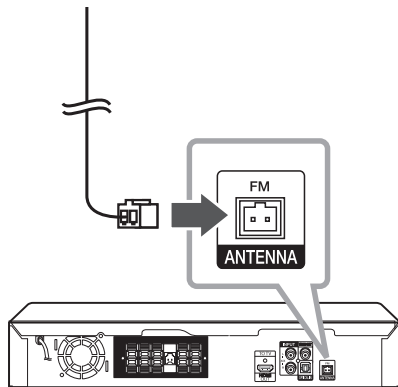
To select the AUX OPT function, press  **RADIO&INPUT** on the remote control.

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 antenna for listening to the radio.

Connect the FM Wire antenna to the FM antenna connector:



! Note

Be sure to fully extend the FM wire antenna.

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 23 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 **⬆ ⬇ ⬇** 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	⬆ ⬇	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 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 42. If you enter the wrong language code, press **CLEAR**.

[Off (for Disc Subtitle)]

Turns off Subtitle.

Display

TV Aspect

Select the 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 HDMI video signal. Refer to "Resolution Setting" for details about the resolution (Refer to the page 19).

[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 VIDEO OUT is only connected, this changes the resolution to 480i (or 576i) as default resolution.

[1080p]

Outputs 1080 lines of progressive video.

[1080i]

Outputs 1080 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 **▲▼<>** 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.

[Speaker Test Start]

Select [Speaker Test Start] by using the **▲▼** 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 300ms.

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 appear 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.
- If you do not use the microphone, turn down the volume and disconnect the microphone.

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 **Λ V** buttons.
4. Press **⊙ ENTER** and select the second character using **Λ V** 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 **Λ V** 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 41.

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

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 or 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 belows.
Select a media then press **ENTER**.



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, Movie 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 - Video(MOVIE) : Title/ All/ Off - Audio CD/ MP3/ WMA : Track/ All/ Random/ Off
Slowing down the playing speed	In the pause mode, press SCAN to select the required speed. (DVD only) To return to normal speed, press PLAY, MONO/STEREO . In the pause mode, press SCAN to select the required speed. (Movie only) To return to normal speed, press PLAY, MONO/STEREO .

Other Operations

Displaying Disc Information on-screen

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

1. Press **INFO/DISPLAY** to show various playback information.
The displayed items differ depending on the disc type or playing status.

2. 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 **▲▼<>**.
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 **▲▼<>**.
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 **▲▼** 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 "1 10 20" 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 **"II"** (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).
- This function may not work on some disc or title/track.

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.

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

Marked Playback

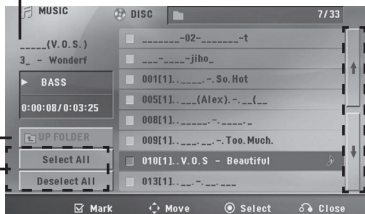
MUSIC ACD

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

- 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.

- Select a desired music on the [List] by using the **Λ V** then press **MARKER** to appear the mark on the list.
- Press **⊙ ENTER**.
Displays the play mode.
- Select the play mode by using the **Λ V** and press **⊙ 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 **⊙ ENTER**.

To delete a Marker

- Use **Λ V** to select the track that you wish to erase from the marked file.
- Press **MARKER**.

To delete all Markers

Use **Λ V <>** to select [Deselect All] then press **⊙ 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.

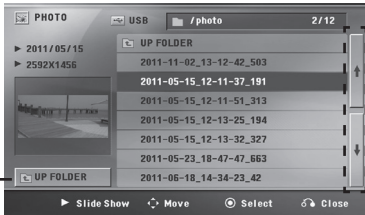
Viewing a PHOTO file

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.
↶ List	↶ 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 ▶/II –** 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.

To cancel it, press again **MUTE** or change the volume level.

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.

Power Resume - Optional

DVD

Even if the power suddenly goes out, turn on the unit and then it plays a position where the contents is being played. System will periodically save current playback status.

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.


Auto power down

This unit will be off itself to save electric consumption in the case main unit is not connected to external device and is not used for 15 minutes. So does this unit after six hours since Main unit has been connected to other device using analog input.

Radio Operations

Be sure that FM antenna is connected. (page 22.)

Listening to the radio

1. Press  **RADIO&INPUT** until FM appears in the display window.
The last received station is tuned in.
2. Press and hold **TUNING (-/+)** 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 (-/+)** repeatedly.

Presetting the Radio Stations

You can preset 50 stations for FM.

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

1. Press  **RADIO&INPUT** until FM 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.
7. To listen a preset station, press **PRESET (-/+)** or **0** to **9** numerical buttons on the remote control.


Deleting all the saved stations

1. Press and hold **CLEAR** for two seconds.
"ERASEALL" 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 equalizers. 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
STANDARD (STD)	You can enjoy the sound without equalizer effect.
BASS	The BASS is Bass Blast. During playback, reinforce the treble, bass and surround sound effect.
USER EQ	You can adjust the sound effect.
FOOTBALL	You can enjoy more dynamic sound as watching sports game in the stadium.
POWER FRONT (P-FRONT)	You can enjoy the harmonious sound. This mode is suited for front-positioned speakers when they are all placed in a row.

! 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.
- This function is not operated when the microphone is connected to the unit.

Setting the USER EQ

You can adjust the sound level of Bass(BASS) and Treble(TRE) as your preference.

1. Use **SOUND EFFECT** to select the USER EQ then press **⏏ ENTER**.
2. Use **^ v** to select Bass (BASS) or Treble(TRE).
3. Use **<>** to select the sound level of Bass(BASS) or Treble(TRE) then press **⏏ ENTER** to save the setting.

Advanced Operations

Recording to USB

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

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




[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 29).

It'll be stored as follows.

Audio CD	 CD_REC TRK_001 TRK_002 ...
MP3/ WMA	 FILE_REC 001_ABC(File name) 002_DEF(File name) ...
The other sources (Tuner, AUX, Portable)	 EXT_REC AUDIO_001 AUDIO_002 ...

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. (Except MP3/WMA files)
- Do not remove the USB device or turn off the unit during USB recording. If does 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.
- 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.

Using a Bluetooth wireless technology

About Bluetooth

Bluetooth is wireless communication technology for short range connection.

The sound may be interrupted when the connection interfered by the other electronic wave or you connect the **Bluetooth** in the other rooms.

Connecting individual devices under

Bluetooth® wireless technology does not incur any charges. A mobile phone with **Bluetooth** wireless technology can be operated via the Cascade if the connection was made via **Bluetooth** wireless technology.

- Available Devices : Mobile phone, MP3, Laptop, PDA (This units be supported the Stereo Headset.)
- Version : 4.0
- Codec : SBC

Bluetooth Profiles

In order to use **Bluetooth** wireless technology, devices must be able to interpret certain profiles. This unit is compatible with following profile.

A2DP (Advanced Audio Distribution Profile)

Listening to music of a Bluetooth device

Pairing your unit and **Bluetooth** device

Before you start the pairing procedure, make sure the **Bluetooth** feature is turned on in to your **Bluetooth** device. Refer to your **Bluetooth** device's user guide. Once a pairing operation is performed, it does not need to be performed again.

1. Select the **Bluetooth** function by using the  **RADIO&INPUT**.
Appears "BT READY" in display window.
2. Operate the **Bluetooth** device and perform the pairing operation. When searching for this unit with the **Bluetooth** device, a list of the devices found may appear in the **Bluetooth** device display depending on the type of **Bluetooth** device. Your unit appears as "LG-HTS(XX:XX)".

Note

XX:XX means the last four digits of BT address. For example, if your unit has a BT address such as 9C:02:98:4A:F7:08, you will see "LG-HTS(F7:08)" on your **Bluetooth** device.

3. When this unit is successfully connected with your **Bluetooth** device, "PAIRED" appears on the display window and change to **Bluetooth** device name soon.

Note

Depending on the **Bluetooth** device type, some device have a different pairing way.

4. Listening to music.
To play a music stored on your **Bluetooth** device, refer to your **Bluetooth** device's user guide.

Note

- If you change the function of the unit, the **Bluetooth** function is disconnected, operate pairing again.
(**Bluetooth** ↔ Function other than the **Bluetooth**)
- Depending on the **Bluetooth** device type, some devices have a different pairing way. For details about **Bluetooth** pairing, refer to your **Bluetooth** device manual.

! Note

- The sound may be interrupted when the connection interfered by the other electronic wave.
- You can not control the **Bluetooth** device with this unit, nor can you control this unit with the **Bluetooth** device.
- Pairing is limited one **Bluetooth** device per one unit and multi-pairing is not supported.
- Depending on the type of the device, you may not be able to use the **Bluetooth** function.
- You can enjoy wireless system using phone, MP3, Notebook, headset, etc..
- When not connected the **Bluetooth**, "BT READY" appears on the display window.
- The Electrical malfunction due to devices using same frequency such as Medical equipment, Microwaves or wireless LAN devices, the connection will be disconnected.
- When someone stands and interrupts communication between **Bluetooth** device and the player, the connection will be disconnected.
- If the gotten away of the distance between **Bluetooth** and the unit, the sound quality is lower and lower the connection will disconnect when the space between the **Bluetooth** and the unit gets out of the operating range of **Bluetooth**.
- If the function is changed to **Bluetooth** again from other function, **Bluetooth** device is paired automatically.
- If the **Bluetooth** device name contains special characters, they are displayed as " _ " on the display window.
- **Bluetooth** connection are unavailable during recording.

Auto function change

This unit recognizes input signals such as **Bluetooth** and then changes suitable function automatically.

When you try to connect BLUETOOTH device

When you try to connect your **Bluetooth** device to this unit, **Bluetooth** function is selected. Play your music on the **Bluetooth** device.

! Note

- The **Bluetooth** unit which is not paired with this unit, cannot use the auto function change.
- If you change the this unit's function to other function, some **Bluetooth** unit may try to connecting in succession. Disconnect the **Bluetooth** connection before changing of the this unit's function.

AUTO POWER On

This unit automatically turns on by an input source : **Bluetooth**.

When you turn on your external device connected to this unit, this unit recognizes the input signal and select the suitable function. You can hear the sound from your device.

If you try to connect your **Bluetooth** device, this unit turns on and is paired automatically. And then play your music.

! Note

- After the unit is turned on by AUTO POWER function, it will be automatically turned off if there is no signal for a certain period of time from the external device.
- Depending on the connected device, this function may not operate.
- If you disconnect **Bluetooth** connection by this unit, some **Bluetooth** devices try to connect to the unit continually. Therefore it is recommended to disconnect the connection before turn off the unit.
- If you have already paired with this unit automatically this unit can turn on by an input.
- If you turn off the unit by pressing the power button for more than 5 seconds, Auto Power On function is disabled. To activate it, turn on the unit.

Troubleshooting

PROBLEM	CORRECTION
The unit does not work properly.	<ul style="list-style-type: none"> • Turn off the power of this unit and the connected external device (TV, Woofer, DVD-player, Amplifier, etc.) and turn it on again. • Disconnect the power cord of this unit and the connected external device (TV, Woofer, DVD-player, Amplifier, etc.) and then try connecting again.
No power	<ul style="list-style-type: none"> • Plug the power cord into the wall outlet securely.
No picture	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Clean the disc using a soft cloth with outward strokes.
A DVD/CD will not play	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Check the antenna connection and adjust its position. • Attach an external antenna 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	<ul style="list-style-type: none"> • 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 (7 m) 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.
The AUTO POWER function does not work.	<ul style="list-style-type: none"> • Check connection of the external device such as TV, DVD/Blu-Ray player or Bluetooth device. • Depending on the connected device, this function may not operate.

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	Panjabi	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	Laotian	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				

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Specifications

General	
Power requirements	Refer to main label.
Power consumption	Refer to main label.
Dimensions (W x H x D)	Approx. 360 x 58 x 298.5 mm without foot
Operating temperature	5 °C to 35 °C
Operating humidity	5 % to 60 % RH
Bus Power Supply	5 V  500 mA

Inputs/ Outputs	
VIDEO OUT	1.0 V (p-p), 75 Ω , sync negative, RCA jack x 1
HDMI OUT (video/audio)	19 pin (Type A, HDMI™ Connector) x 1
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	0.5 Vrms (3.5 mm stereo jack) x 1

Amplifier		
Stereo mode	167 W RMS + 167 W RMS (3 Ω at 1 kHz)	
Surround mode	Front	167 W RMS + 167 W RMS (3 Ω at 1 kHz)
	Center	167 W RMS (3 Ω at 1 kHz)
	Surround	167 W RMS + 167 W RMS (3 Ω at 1 kHz)
	Subwoofer	167 W RMS (3 Ω at 60 Hz)

Tuner	
FM Tuning Range	87.5 to 108.0 MHz or 87.50 to 108.00 MHz

Front Speaker	
Type	1 way 1 speaker
Impedance	3 Ω
Rated Input Power	167 W RMS
Max. Input Power	334 W RMS
Net Dimensions (W x H x D)	Approx. 250 x 1110 x 250 mm

Rear Speaker	
Type	1 way 1 speaker
Impedance	3 Ω
Rated Input Power	167 W RMS
Max. Input Power	334 W RMS
Net Dimensions (W x H x D)	Approx. 88 x 122 x 81 mm

Center Speaker	
Type	1 way 1 speaker
Impedance	3 Ω
Rated Input Power	167 W RMS
Max. Input Power	334 W RMS
Net Dimensions (W x H x D)	Approx. 260 x 93 x 73 mm

Passive Subwoofer	
Type	1 Way 1 Speaker
Impedance	3 Ω
Rated Input Power	167 W RMS
Max. Input Power	334 W RMS
Net Dimensions (W x H x D)	Approx. 191 x 386 x 318 mm

- Design and specifications are subject to change without notice.

