

MODEL LH-790HTS

P/NO: MFL73752054



1 Safety Information



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 OUAL IFIED 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: 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. Visible laser radiation when open. DO NOT STARE INTO BEAM.

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.

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.







Disposal of your old a ppliance



- When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
- 2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
- 3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
- 4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.



LG Electronics hereby declares that this/ these product(s) is/are in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC, 2006/95/EC, and 2009/125/EC.

European representative:

LG Electronics Service Europe B.V. Veluwezoom 15, 1327 AE Almere, The Netherlands (Tel: +31-(0)36-547-8888)

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 overheating. The openings should be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a builtin installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction have been adhered to.

This device is equipped with a portable battery or accumulator.

Safe way to remove the battery or the battery from the equipment:

Remove the old 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 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 system batteries and accumulators.

The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

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 OUESTIONS 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 Vista)







	Contents		21	Resolution Setting
			21	Video Output Resolution
1			22	Optional Equipment Connection
			22	HDMI IN connection
	Saf	ety Information	23	AUX In Connection
			23	AUDIO (PORT. IN) In
2	2	CAUTION		Connection
			23	Listening to music from your
	Pre	paration		portable player or external
				device
3	6	Unique Features	24	USB Connection
	6	Accessories	25	OPTICAL In connection
	7	Introduction	25	Antenna Connection
	7	Playable Discs	26	Adjust the setup settings
4	7	About the 🛇 Symbol Display	26	OSD Initial language settings
	7	Symbol Used in this Manual	26	To display and exit the Setup
	7	Regional Codes		menu
	8	Playable file Requirement	27	Language
5	9	Remote control	27	Display
	11		28	Audio
		Front panel	29	Lock (Parental Control)
6	12	Rear panel	30	Others
	Inst	tallation		
			Ope	eration
	13	Assembling the speaker stand to	31	Using the Home Menu
7		the speaker		_
	15	Mounting the speakers to a wall	31	Basic Operations
	16	Attaching the speakers to the unit	32	Other Operations
	17	Positioning the system	32	Displaying Disc Information on-
			22	Screen To display the DVD Many
	18	Connections to Your TV	33	To display the DVD Menu
	18	Component Video Connection	33	To display the DVD title
	19	HDMI Out Connection	33	1.5 times speed playback
	20	Video Connection	33	Screen Saver

3

4



33	Starting play from selected	43	Using a Bluetooth wireless	
	time		technology	
33	Resume playback	43	Listening to music of a	
34	Marked Playback		Bluetooth device	
34	Changing subtitle code page	44	Listening to music on this unit	
35	Viewing a PHOTO file		using Bluetooth device	
35	Options while viewing a photo	45	Checking the information of	
36	Sleep Timer Setting		connected Bluetooth device	
36	Dimmer			
36	Turn off the sound temporarily	Mai	Maintenance	
36	Last Scene Memory			
36	System Select - Optional	46	Notes on Discs	
36	Adjust the speaker level	46	Handling the Unit	
	settings			
36	VOCAL FADER	Trou	ubleshooting	
37	Radio Operations	47		
37	Presetting the Radio Stations	47	Troubleshooting	
37	Deleting all the saved stations	Ann	Annandiu	
37	Deleting a saved station	Appendix		
37	Improving poor FM reception	48	Language Codes	
38	Sound adjustment	49	Area Codes	
38	Setting the surround mode	50	Trademarks and Licenses	
39	Advanced Operations			
39	Recording to USB	51	Specifications	
40	Playing the iPod			







41

41

Enjoying iPod on the screen Enjoying the iPod IN mode



2 Preparation

Unique Features

Portable In

Listens 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

listens sound form TV, DVD and Digital divce with vivid 5.1 (2.1 or 2.0) ch mode.

HDMI In

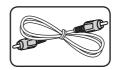
Simple connection with digital divice (Set Top Box, DVD player etc.) through HDMI.

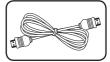
Made for iPod

Enjoys music form IPod with simple connection.

Accessories

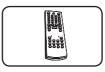
Please check and identify the supplied accessories.

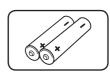




Video cable (1)

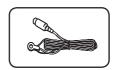
HDMI cables (1)





Remote control (1)

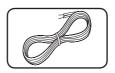
Batteries (2)





FM antenna (1)

AM antenna (1)



Speaker cables (6)

JPG

2



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"		

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 \bigcirc Symbol Display

" \(\rightarrow\) "may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that disc.

Symbol Used in this Manual



JPG files

NOTE

Indicates special notes and operating features.



TIP

Indicates tip and hints for making the task easier.



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

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 ISO 9660 file system.

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

DivX file requirement

DivX file compatibility with this unit is limited as follows:

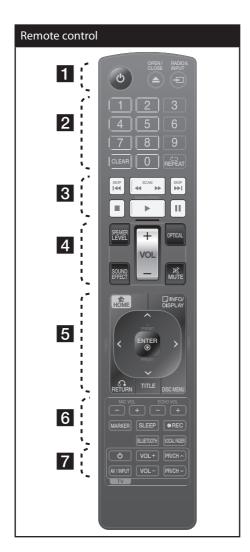
- Available resolution: within 720x576 (W x H) pixels.
- The file name of the DivX subtitle should be entered within 45 characters.
- If there is impossible code to express in the DivX file, it may be displayed as " _ " mark on the display.
- Frame rate: less than 30 fps.
- If the video and audio structure 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", "DTS", "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



→ **RADIO&INPUT**: Changes input sources.

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

CLEAR: Removes a mark on the marked list or a number when setting the password.

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

3

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

◄✓/>> SCAN : Searchs backward or forward.

■ (STOP) : Stops playback or recording.

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

II (PAUSE/STEP) : Pauses playback.

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.

Put the batteries into the remote control.

Make sure for the + (plus) and - (minus) on the batterise to be matched on the remote control.

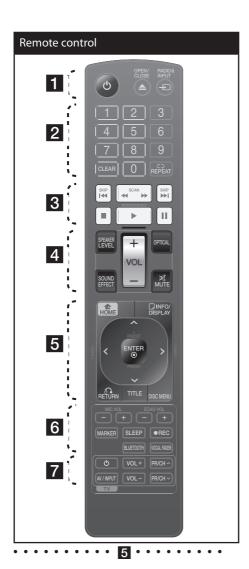


(POWER): Switches the unit ON or OFF.

△ OPEN/CLOSE : Opens and closes the disc Drawer.







◆ HOME: Displays the [Home] menu.

☐ **INFO./DISPLAY**: Accesses On-Screen Display.

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.

DISC MENU: Accesses the menu on a DVD disc.

ECHO VOL. -/+: Adjusts echo volume.

MIC VOL. -/+: Adjusts microphone volume.

MARKER: Marks play list.

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

• REC: USB Direct Recording.

Bluetooth: Pairing, Connecting and disconnecting your unit and Bluetooth device in function other than the Bluetooth.

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

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

Controlling the TV.

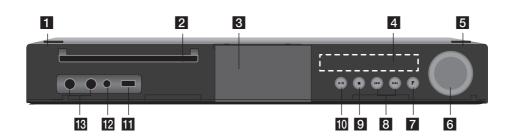
You can control the sound level, input source, and power switching of LG TVs as well. Hold POWER (TV) and press PR/CH (+/-) button repeatedly until the TV turns on or off.



Preparation



Front panel



- 1 U/I (POWER) Switches the unit ON or OFF.
- **2** Disc Tray
- 3 iPod Dock

hold)

- 4 Display window Shows the current status of the unit.
- 5 △ (OPEN/CLOSE) Opens or closes the disc tray.
- 6 **VOLUME**Adjusts speaker volume.
- **F** (FUNCTION)
 Changes the input source or function.
- 8 I◀◀/▶▶ (SKIP)
 Go to next or previous file/track/chapter.
 Searches backward or forward (Press and

Tunes in the desired radio station.

- 9 (STOP) Stops playback.
- To ►/II (PLAY / PAUSE) Starts playback. Pause playback temporarily, press again to exit pause mode.
- 11 USB Port Connect a USB device.
- 12 PORT. IN Connect to a portable player with audio outputs.
- 13 Microphone jacks 1/2

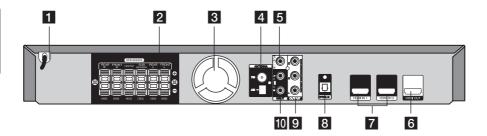








Rear panel



- 1 Power cord
- 2 Speakers connectors Connect the speaker cables.
- 3 Cooling Fan
- 4 Antenna Connector FM- Connects the FM wired antenna AM- Connects the AM loop antenna
- 5 VIDEO OUT Connect to a TV with video inputs.

- 6 HDMI OUT (Version 1.2A) Connect to TV with HDMI inputs. (Interface for digital audio and video)
- 7 HDMI IN (Version 1.2A) 1/2 Connect to an external source with HDMI output.
- 8 OPTICAL IN Connect to optical audio equipment.
- 9 COMPONENT VIDEO (Y PB PR)OUTPUT (PROGRESSIVE SCAN) Connect to a TV with Y PB PR inputs.
- 10 AUX (L/R) INPUT Connect to an external source with 2 channel audio outputs.



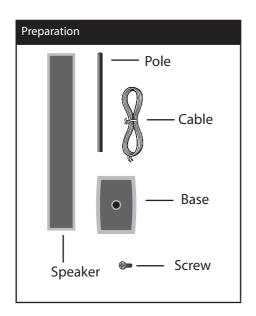


Installation ω

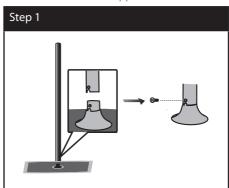


3 Installation

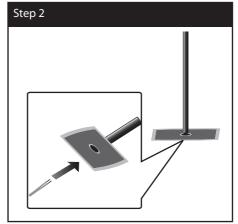
Assembling the speaker stand to the speaker



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



2. Insert a speaker wire from the bottom of the base.

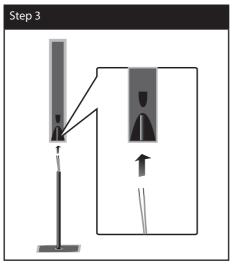




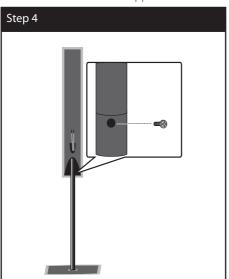


Installation

3. Draw the speaker wire through the inside of the pole and also through the hole on the bottom of the speaker.

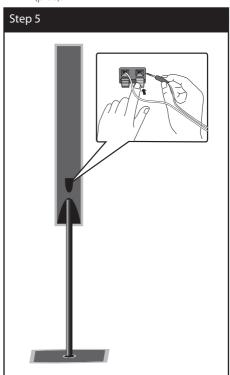


4. Attach the speaker to the pole, the secure the connection with a supplied screw.



5. 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).







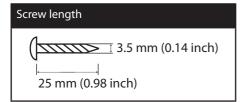


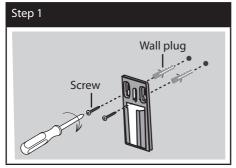


Mounting the speakers to a wall

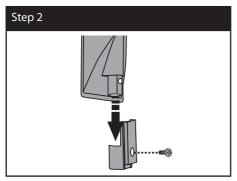
You can mount the speakers to a wall. Prepare screws and brackets supplied.

1. Attach the wall bracket to the wall with screws as shown in the illustration below. When you mount to a wall (concrete) use the wall plugs. (supplied)

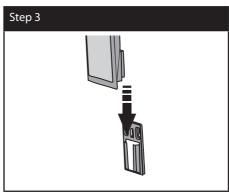




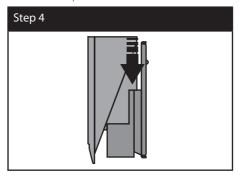
2. Attach the speaker bracket to the speaker and fasten the screws.



3. Hang the speaker bracket onto the wall bracket.



4. Press the speaker to secure the brackets.

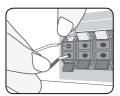




Attaching the speakers to the unit

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 end 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.



Be careful to make sure children not to put their hands or any objects into the *speaker duct. *Speaker duct: A hall for plentiful bass sound on speaker cabinet (enclosure).

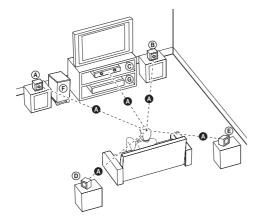






Positioning the system

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).



(A) Front left speaker (L)/

B 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.

(D) Surround left speaker (L)/

(E) Surround right speaker (R):

Place these speakers behind your listening position, facing slightly inwards.

(F) 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.

(G) Unit







Connections to Your TV

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

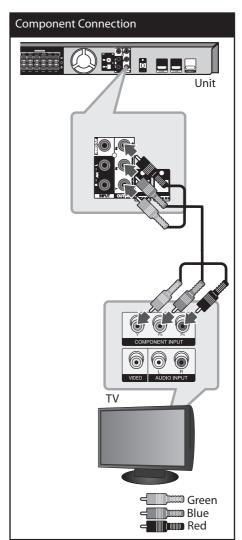


- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the unit. Use only one of the connections described in this manual.
- Please refer to the manuals of your TV, Stereo System or other devices as necessary to make the best connections.
- Make sure the unit is connected directly to the TV. Tune the TV to the correct video input channel.
- Do not connect your unit via your VCR. The image could be distorted by the copy protection system.

Component Video Connection

Connect the COMPONENT VIDEO OUTPUT (PROGRESSIVE SCAN) 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.







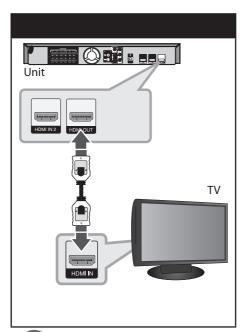




HDMI Out Connection

If you have a HDMITV or monitor, you can connect it to this unit using a 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).





- 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 21.)



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 720x480i (or 576i), 720x480p (or 576p), 1280x720p,1920x1080i or 1920x1080p 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 usea higher version cable than 1.2A 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.



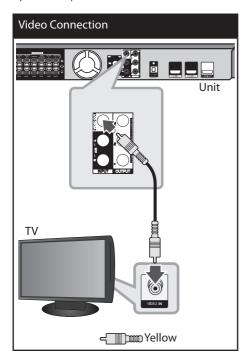




Video Connection

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.











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 **^/V** to select [DISPLAY] option then press > to move to the second level.
- **4.** Use Λ/V to select the [Resolution] option then press > to move to the third level.



 Use A/V to select the desired resolution then press ⊙ ENTER to confirm your selection.



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 different according to connection type.

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

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

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







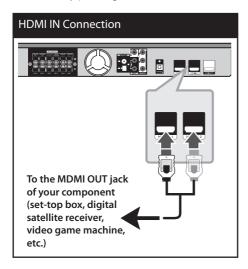


Optional Equipment Connection

HDMI IN connection

You can enjoy the pictures and sound of your component with this connection.

Connect the HDMI IN 1 or HDMI IN 2 jack on the unit to the HDMI output jack on your Set-Top box (or Digital Device etc.) using an HDMI cable. Set the external source to HDMI IN 1 or HDMI IN 2 by pressing
RADIO&INPUT.





NOTE

- You cannot change the video resolution at the HDMI IN 1 or HDMI IN 2 mode. Change the video resolution of the connected component.
- If the video output signal is abnormal when your personal computer is connected to HDMI IN 1 or HDMI IN 2 jack, change the resolution of your personal computer to 480p (or 576p), 720p, 1080i or 1080p.
- The video signal from the HDMI input cannot be output from the component or composite video outputs.
- The player sends audio from the HDMI inputs to both the HDMI output and to the unit's speakers.
- You cannot operate SIMPLINK function at the HDMI IN mode.





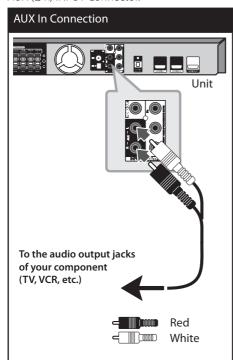


Installation



AUX In Connection

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

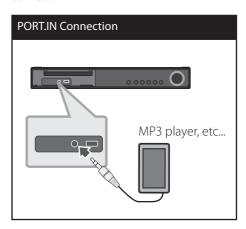




If your TV has only one output for audio (mono), connect it to the left (white) audio jack on the unit.

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.

 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.

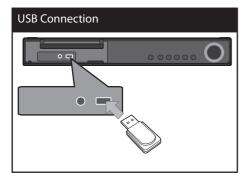
- 2. Turn the power on by pressing () (POWER).
- 3. Select the PORTABLE or AUX (L/R) INPUT function by pressing → RADIO&INPUT.
- **4.** Turn on the portable player or external device and start it playing.





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.



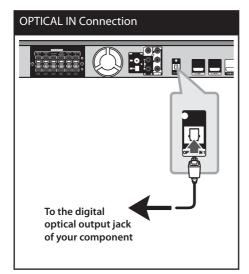






OPTICAL In connection

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



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.

- 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**.

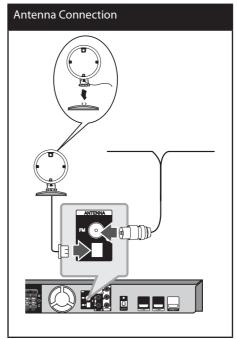
Function is retuned to previous one.

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 26 to 30.

OSD Initial language settings

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.

 Press () (POWER) to turn the unit on. The language setup menu will appear on the screen.



 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

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		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 48. 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 21).

[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 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.





Installation



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 O ENTER.

The [5.1 Speaker setup] appears.



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

[Speaker selection]

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]

Press < > to adjust the output level of the selected speaker.

Front L/R: $0 \sim -5$

SubWoofer, Rear L/R, Center: 5 ~ -5

[Distance]

After you connected speakers to your unit, set the Distance between the speakers and your listening point if the distance of Center or Rear speakers is bigger than the distance of Front speakers. This allows the sound from each speaker to reach the listener at the same time. Press < > to adjust the Distance of the selected speaker. This distance is equivalent to a difference of the distance between Center or Rear speaker and Front speakers.

[Test]

Select [Speaker Test Start] by using the Λ V and press \odot **ENTER**. Press \odot **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 Λ V (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 \wedge **V** buttons.
- Press ⊙ ENTER and select the second character using ∧ 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.
- 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.

- Select [Password] on the [Lock] menu and then press >.
- 2. 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.

3. Press **A 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 49.

- 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 ∧ V buttons.
- **5.** Press **⊙ ENTER** to confirm your Area code selection.

Others

DivX VOD

We provide you with the DivX° VOD (Video On Demand) registration code that allows you to rent and purchase videos using the DivX° VOD service

For more information, visit www.divx.com/vod.

Press **© ENTER** when [DivX(R) VOD] is highlighted and you can view the registration code of the unit.



NOTE

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









Operation 4



Using the Home Menu Basic Operations

Press ♠ HOME.
 Displays the [Home] menu.



- 2. Select an option by using < >.
- 3. Press **O 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.

- Insert the disc by using the

 OPEN/
 CLOSE or Connect the USB device to the
 USB port.
- 2. Press ♠ HOME.

 Displays the [Home] Menu.



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



- 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.



Operation



То	Do this		
Stop	Press ■ (STOP)		
Playback	Press ► (PLAY), MONO/ STEREO.		
Pause	Press II (PAUSE/STEP).		
Frame- by-Frame playback	Press II (PAUSE/STEP) repeatedly to play title Frame-by-Frame. (DVD, DivX only)		
Skipping to the next/ previous chapter/ track/ file	During playback, press I◄◄/▶►I SKIP to go to the next chapter/ track/ file or to return to the beginning of the current chapter/ track/ file. Press I◄◄ 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		
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.

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 Λ V 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.

- Press DISC MENU.
 The disc's menu appears.
- **2.** Select the menu by using $\wedge V < >$.
- **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.

- Press TITLE.
 The disc's title appears.
- **2.** Select the menu by pressing $\wedge V < >$.
- **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.

- 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 DivX

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

- 1. Press D 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
- **4.** Press **© ENTER** to confirm. Playback starts from the selected time.

Resume playback DVD DivX ACD MP3 WMA

using numerical buttons.

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; (¹) (POWER), ♠ OPEN/CLOSE, etc).





Operation

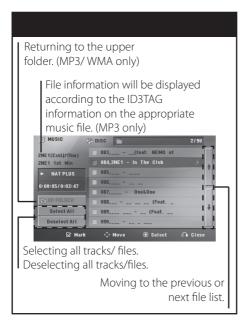




WMA

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.



- Select a desired music on the [List] by using the ^ V then press MARKER to appears the mark on the list.
- 3. Press **⊙** ENTER or **►** (PLAY), MONO/ STEREO.

Displays the play mode.

4. Select the play mode by using the ∧ 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

- 1. Use \wedge V to select the track that you wish to erase from the marked file.
- 2. Press MARKER

To delete all Markers

Use $\land \lor < >$ 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.

Changing subtitle code page

DivX

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

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

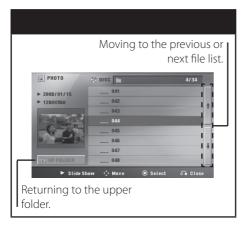




Viewing a PHOTO file JPG

This unit can play discs with photo files.

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



- 2. Press ∧ V to select a folder, and then press ⊙ ENTER.
- 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	∧ ∨ < >	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.

- While viewing a photo in full screen, press INFO./DISPLAY to display the option menu.
- **2.** Select an option using $\Lambda V < >$.



- **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.

Operation



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 M 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. (PAL/ NTSC)



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 memu 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 diff erent 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 and AM aerials are connected. (Refer to the page 25)

Listening to the radio

- Press RADIO&INPUT until FM or AM (MW) 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 rotating **VOLUME** on the front panel or by pressing **VOL** (+/-) on the remote control repeatedly.

Presetting the Radio Stations

You can preset 50 stations for FM and AM (MW).

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

- 1. Press
 RADIO&INPUT until FM or AM (MW) 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 **O 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 selectd 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.





Operation





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	You can enjoy the natural sound effect same as a 5.1-channel.
NATURAL	You can enjoy comfortable and natural sound
Local specialization equalizer	Regionally optimized sound effect. (DANGDUT/ ARABIC/ PERSIAN/ INDIA/ REGUETON/ MERENGUE/ SAMBA/ SALSA/ CUMBIA/ AFRO)
AUTO EQ	Realizes the sound equalizer that is the most similar to the genre of which is included in the MP3 ID3 tag of song files.
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	During playback, reinforce the treble, bass and surround sound effect.

On Display	Description
CLRVOICE	This program make voice sound clear, improving the quality of voice sound. (We encourage to use this EQ when you watch the movie of 5.1 channel.)
GAME	You can enjoy more virtual sound while playing video games.
NIGHT	This may be useful when you want to watch movies at low volume late at night.
RETOUCH	When listening to MP3 files or other compressed music, you can enhance the sound. This mode is available only to 2 channel sources.
LOUDNESS	Improves the bass and treble sound.
VIRTUAL	You can enjoy more virtual surround sound.
PLII MOVIE PLII MUSIC	Dolby Pro Logic II enables you to play stereo source on 5.1-channel
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.



Operation



Advanced Operations

Recording to USB

You can record music or sound souce 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. 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 34).

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) - 1
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. (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 availabe.
- 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 divice 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 nunbering 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 copyprotected 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.



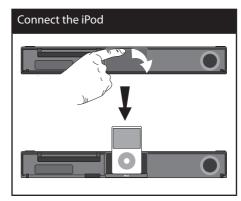
Playing the iPod

You can enjoy the media files with your iPod. For details about iPod, refer to the iPod's User Guide

Preparation

- To view iPod's Videos and Photos on the TV screen.
 - Be sure to use the video connection. through the VIDEO OUT jack on the rear panel of this unit. Select the appropriate video input mode on the TV.
 - Depending on the iPod, make sure that select Videos > Video settings, and then set TV Out to Ask or On from your iPod. For details about Video Settings, refer to the iPod User Guide
 - The viewing photos is available only if this unit is in iPod IN mode and you can view photos only as a slide show. You have to start a slide show on your iPod to view a photo on a TV. For details about a slide show, refer to the iPod User Guide.
- Before connecting the iPod, turn this unit off and reduce the volume of this unit to its minimum

Connect the iPod firmly. To open the iPod Dock, pull iPod dock.



- If you turn this unit on, your iPod is automatically turned on and recharging starts.
- If your iPod is completely discharged, charge the battery first.





Enjoying iPod on the screen

You can operate your iPod by controlling menu on the screen.

- 1. Connect the iPod firmly.
- 2. Press HOME.
- 3. Select [Music] or [Movie] using </>, and press **© ENTER**. If you connected the other device (CD or USB), select the iPod on the menu and ENTER. If you select the [Music] option when you connect iPod, the unit plays a music automatically.
- **4.** Select a content using $\Lambda/V/</>$, and press • ENTER to play.

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



Moving to the previous or next file list.

5. Operate iPod. Refer to basic operation section.



- If the iPod's OSD language is selected to simple chinese, the power scroll function is not operated correctly.
- The controls on your iPod are not operational in this mode.

Enjoying the iPod IN mode

You can operate your iPod by using the supplied remote control and controls on your iPod.

- 1. Connect the iPod firmly.
- 2. Press → RADIO&INPUT to select iPod IN mode.

Λ/V/	Selects an option in the menu.				
► (PLAY), MONO/ STEREO / ⊙ ENTER	Starts playback the music or video.				
11	To pause while it is playing. To resume playing, press ► (PLAY), MONO/STEREO again.				
<d ▶►<br="">SCAN</d>	Fast-forward or rewind a song or video				
I ⊲ ✓ / ▶ ► I SKIP	Skip the playback forward or backward .				
CT REPEAT	To select a desired repeat mode: Track (つ), All (つ), Off (No display).				





Operation



NOTE

- An error message "CHECK IPOD" or "Connected iPod model is not supported." appears when:
 - your iPod is not available for the function to be operated.
- An error message "CHECK IPOD" or "Please update iPod's software." appears when:
 - your iPod has an old software version.
 → Update your iPod software to latest version.
- If this unit displays an error message, follow the message. An error message "CHECK IPOD" or "Please check your iPod." appears when:
 - the communication between this unit and your iPod is failed.
 - → Undock & re-dock your iPod in this unit.
 - your iPod is not connected firmly.
 - this unit recognizes your iPod as unknown device.
 - your iPod is exceptionally low on power.
 - → The battery needs to be charged.
 - → If you charge the battery while iPod is extremely low in power, it maytake longer to charge.
- You may use the dock adapter which should be supplied with your iPod to the dock for the stable use of the iPod. If you need an adapter, consult your iPod dealer.
- Compatibility with your iPod may vary depending on the type of your iPod.
- iPod touch and iPhone have any difference in operation other than iPod. You may need any additional control to use them with this unit. (e.g. "slide to unlock")
- If you use an application, make a call, or send and receive SMS text message, etc. on iPod touch or iPhone, disconnect it from iPod dock of this unit and then use it.
- Depending on your iPod's software version, it may not be possible to control your iPod from this unit. We recommend installing the latest software version.
- The video quality depends on the video sources on your iPod.
- If you have a problem with your iPod, please visit www.apple.com/support/ipod.

 You cannot use the microphone on the iPod mode.





Using a Bluetooth wireless technology

About Bluetooth

Bluetooth® is wireless communication technology for short range connection.

The available range is within 10 meters.

(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.)

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)

AVRCP (Audio/Video Distribution Remote Control 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" and then "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 Audio".
- **3.** Enter the PIN code. PIN cord: 0000
- **4.** When this unit successfully paired with your Bluetooth device, Bluetooth LED of this unit lights up and appears "BT SINK".



NOTE

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





5. 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)
- · AVRCP cannot be available in this mode.

Listening to music on this unit using 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 a function other than the Bluetooth function by using the
 RADIO&INPUT.
- 2. Place the Bluetooth device to be connected to this unit within 1 meter of the unit.
- **3.** Put the Bluetooth device in pairing mode. Refer to your Bluetooth device's user guide.
- 4. Please and hold Bluetooth. Appears "INQUIRY". If searched Bluetooth is only one, pairing the unit. Refer the step 7.
- **5.** Appears depending on type of Bluetooth devices in display window.
- 6. Select a Bluetooth device you want to connect by using $\land \lor$ and press \odot ENTER.
- 7. Enter the PIN code by using numberical buttons or Λ V < >. PIN cord: 0000
- 8. Press ENTER to confirm. When this unit successfully paired with your Bluetooth device, Bluetooth icon of this unit lights up and appears "BT SRC". You can listen to music played on this unit using your Bluetooth device. Sound output from the speakers is stopped.



NOTE

You cannot use VOL (volume), SOUND EFFECT, SPEAKER LEVEL in this mode.



Operating with Bluetooth device

You can operate a unit by connecting a Bluetooth device using AVRCP. For details about operation, refer to the Bluetooth device's User Guide



NOTE

These operations may not be vailable for certain Bluetooth device. In addition, the actual operations may differ depending on the connected Bluetooth device.

Connecting and disconnecting with a Bluetooth device

This function is operated after pairing.

Press **Bluetooth** to connect or disconnect with a Bluetooth device

Appears belows in display window.

Connection: BT CONN Disconnection: DISCONN



NOTE

If you change the function of the unit, the Bluetooth function is disconnected, press Bluetooth pairing again. (Bluetooth ←→ Function other than the Bluetooth)

Checking the information of connected Bluetooth device

This function is operated after pairing. You can check the Bluetooth information.

Press and hold DINFO./DISPLAY repeatedly. Bluetooth information is changed as follows.

Local Bluetooth Device Address → Device Name → None → ...



NOTE

- This units dose not be supported the Mono Headset Profile (Hands Free Profile)
- · The sound may be interrupted when the connection interfered by the other electronic
- You cannot control the Bluetooth device with this unit.
- Pairing is limited one Bluetooth device per one unit and multi-pairing is not supported.
- · Although the distance between your Bluetooth and the set is less than 10m, there are obstacles between both, your Bluetooth device cannot be connected.
- 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.
- The device with Bluetooth wireless technology is disconnected, if you turn off the main unit or put the device away from the main unit more than 10m.





5 Maintenance

Notes on Discs

Handling Discs



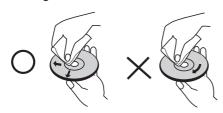


Never stick paper or tape on the disc.

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



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

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

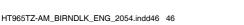
- Do not use volatile liquids such as insecticide spray near the unit.
- Wiping with strong pressure may damage the surface.
- Do not leave rubber or plastic products in contact with the unit for a long period of time.

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, benzine, 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.



Troubleshooting

PROBLEM	CAUSE	CORRECTION		
No power	The power cord is disconnected.	Plug the power cord into the wall outlet securely.		
No picture	The TV is not set to receive the DVD signal.	Select the appropriate video input mode on the TV so the picture from the unit appears on the TV screen.		
, to picture	The video cables are not connected securely.	Connect the video cables securely to both the TV and unit.		
	Equipment connected via the audio cable is not set to receive DVD signal output.	Select the correct input mode of the unit so you can hear the sound from the unit.		
There is little or no sound	The audio cables are not connected to the speakers or unit securely.	Connect the audio cables into the connection terminals correctly.		
	The audio cables are damaged.	Replace with a new audio cable.		
The DVD picture quality is poor	The disc is dirty.	Clean the disc using a soft cloth with outward strokes.		
	No disc is inserted.	Insert a disc.		
4 D) (D (CD :II	An unplayable disc is inserted.	Insert a playable disc (check the disc type, colour system and regional code).		
A DVD/CD will not play	The disc is inserted upside down.	Place the disc with the label or printed side facing upwards.		
	There is a parental lock which prevents the playback of DVDs with a certain rating.	Enter your password or change the rating level.		
Humming noise heard while a	The disc is dirty.	Clean the disc using a soft cloth with outward strokes.		
DVD or CD is playing	The unit is located too close to the TV, causing feedback.	Move unit and audio components further away from your TV.		
. , ,	The antenna is positioned or connected	Check the antenna connection and adjust its position.		
Radio stations	poorly.	Attach an external aerial if necessary.		
can't be tuned in	The signal strength of the radio station is too weak.	Tune to the station manually.		
property	No stations have been preset or preset stations have been cleared (when tuning by scanning preset channels).	Preset some radio stations, see page 37 for details.		
	The remote is not pointed directly at the unit.	Point the remote directly at the unit.		
The remote control doesn't	The remote is too far from the unit.	Use the remote within 23 feet (7m) of the unit.		
work well / at all	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 batteries with new ones.		







(



Appendix

Language Codes

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

Language Code		Language	Code	Language	Code	Language	
Afar	6565	French	7082	Lithuanian 768		Singhalese	
Afrikaans	6570	Frisian	7089	Macedonian	7775	Slovak	
Albanian	8381	Galician	7176	Malagasy	7771	Slovenian	
Ameharic	6577	Georgian	7565	Malay	7783	Spanish	
Arabic	6582	German	6869	Malayalam	7776	Sudanese	
Armenian	7289	Greek	6976	Maori	7773	Swahili	
Assamese	6583	Greenlandic	7576	Marathi	7782	Swedish	
Aymara	6588	Guarani	7178	Moldavian	7779	Tagalog	
Azerbaijani	6590	Gujarati	7185	Mongolian	7778	Tajik	
Bashkir	6665	Hausa	7265	Nauru	7865	Tamil	
Basque	6985	Hebrew	7387	Nepali	7869	Telugu	
Bengali; Bangla	6678	Hindi	7273	Norwegian	7879	Thai	
Bhutani	6890	Hungarian	7285	Oriya	7982	Tonga	
Bihari	6672	Icelandic	7383	Panjabi	8065	Turkish	
Breton	6682	Indonesian	7378	Pashto, Pushto	8083	Turkmen	
Bulgarian	6671	Interlingua	7365	Persian	7065	Twi	
Burmese	7789	Irish	7165	Polish	8076	Ukrainian	
Byelorussian	6669	Italian	7384	Portuguese	8084	Urdu	
Chinese	9072	Javanese	7487	Quechua	8185	Uzbek	
Croatian	7282	Kannada	7578	Rhaeto-Romance	8277	Vietnamese	
Czech	6783	Kashmiri	7583	Rumanian	8279	Volapük	
Danish	6865	Kazakh	7575	Russian 8285		Welsh	
Dutch	7876	Kirghiz	7589	Samoan	8377	Wolof	
English	6978	Korean	7579	Sanskrit	8365	Xhosa	
Esperanto	6979	Kurdish	7585	Scots Gaelic	7168	Yiddish	
Estonian	6984	Laothian	7679	Serbian	8382	Yoruba	
Faroese	7079	Latin	7665	Serbo-Croatian	8372	Zulu	
Fiji	7074	Latvian, Lettish	7686	Shona	8378		
Finnish	7073	Lingala	7678	Sindhi	8368		



Code





Area Codes

Choose a area code from this list.

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





Appendix



Trademarks and Licenses



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



DivX is a registered trademark of DivX, Inc., and is used under license.



Energy Saving (Extremely Low Power Consumption)



On the LG products, an innovative power consumption system in stand-by mode is built.

It consumes less than 0.09 watts in that mode. Therefore, the small amounts of electricity are consumed even though the power plug is inserted.



iPod is trademark of Apple Inc., registered in the U.S. and other countries.



iPhone is a trademark of Apple Inc.

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards





Bluetooth

Bluetooth® wireless technology is a system which allows radio contact between electronic devices within a max. range of 10 meters.

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.

The Bluetooth® word mark and logos are owned by the Bluetooth® SIG, Inc. and any use of such marks by LG Electronics is under license. Other trademarks and trade names are those of their respective owners.



What is SIMPLINK?

Some functions of this unit are controlled by TV's remote control when this unit and LGTV with SIMPLINK are connected through HDMI connection. Controllable functions by LGTV'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 1.2 A HDMI cable.

Specifications

General

- · Power requirements: Refer to main label
- · Power consumption: Refer to main label
- Dimensions (W x H x D): 439 x 66.5 x 283.6 mm without foot
- · Net Weight (Approx.): 3.8 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 IN/OUT (video/audio): 19 pin (HDMI standard, Type A) HDMI version: 1.2A
- · ANALOG AUDIO IN: 2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 1
- DIGITAL IN (OPTICAL 1): 3 V (p-p), Optical jack x 1
- · PORT. IN: 0.5 Vrms (3.5 mm stereo jack)

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







Appendix



Amplifier

- Stereo mode: $180 \text{ W} + 180 \text{ W} (4 \Omega \text{ at } 1 \text{ KHz})$
- · Surround mode:

Front $180 \text{ W} + 180 \text{ W} (4 \Omega \text{ at } 1 \text{ KHz})$

Center 180 W (4 Ω at 1 KHz)

Surround $180 \text{ W} + 180 \text{ W} (4 \Omega \text{ at } 1 \text{ KHz})$

Subwoofer 200 W (3 Ω at 60 Hz)

Speakers

· Front speaker

Туре: 2 Way 3 speaker

Impedance: 4Ω Rated Input Power: 180 W

Max. Input power: **Net Dimensions**

 $(W \times H \times D)$: 280 x 1 213 x 195 mm

360 W

360 W

2 Way 3 speaker

301 x 118 x 83 mm

1 Way 1 speaker

0.55 kg

3Ω

200 W

400 W

Net Weight: 2.5 kg

· Rear speaker

Туре: 2 Way 3 speaker Impedance 4Ω Rated Input Power: 180 W

Max. Input power: Net Dimensions

 $(W \times H \times D)$: 280 x 1 213 x 195 mm

Net Weight: 2.5 kg

· Center speaker

Type: Impedance:

4Ω Rated Input Power: 180 W Max. Input power: 360 W

Net Dimensions

 $(W \times H \times D)$:

Net Weight: · Passive Subwoofer

Type:

Impedance: Rated Input Power:

Max. Input power: Net Dimensions

 $(W \times H \times D)$:

236 x 435 x 391 mm

Net Weight: 4.4 kg









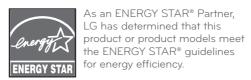












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