



OWNER'S MANUAL

160 W Sound Bar System

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

NB2420A (NB2420A)



Safety Information

1

Getting Started



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



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



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

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

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

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

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

Most appliances recommend they be placed upon a dedicated circuit;

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

This device is equipped with a portable battery or accumulator.

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

RF Radiation Exposure Statement

This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Italy Notice

A general authorization is requested for outdoor use in Italy.

The use of these equipments is regulated by:

1. D.L.gs 1.8.2003, n. 259, article 104 (activity subject to general authorization) for outdoor use and article 105 (free use) for indoor use, in both cases for private use.
2. D.M. 28.5.03, for supply to public of RLAN access to networks and telecom services.

L'uso degli apparati è regolamentato da:

1. D.L.gs 1.8.2003, n. 259, articoli 104 (attività soggette ad autorizzazione generale) se utilizzati al di fuori del proprio fondo e 105 (libero uso) se utilizzati entro il proprio fondo, in entrambi i casi per uso private.
2. D.M. 28.5.03, per la fornitura al pubblico dell'accesso R-LAN alle reti e ai servizi di telecomunicazioni.

Brazil Notice

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

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Unique Features

1

Getting Started

Portable In

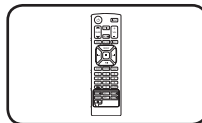
Listen to music from your portable device. (MP3, Notebook, etc)

Speaker ez (easy) Setup

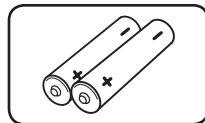
Listen to sounds from TV, DVD or Digital device with vivid 2.1 or 2.0 ch mode.

Accessories

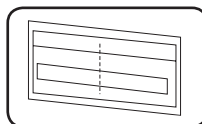
Please check and identify the supplied accessories.



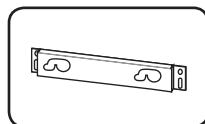
Remote control (1)



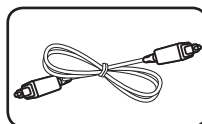
Batteries (2)



Wall Mount Bracket
Installation Template
(1)



Wall bracket (1)



Optical cable (1)

Introduction

Symbols Used in this Manual

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.

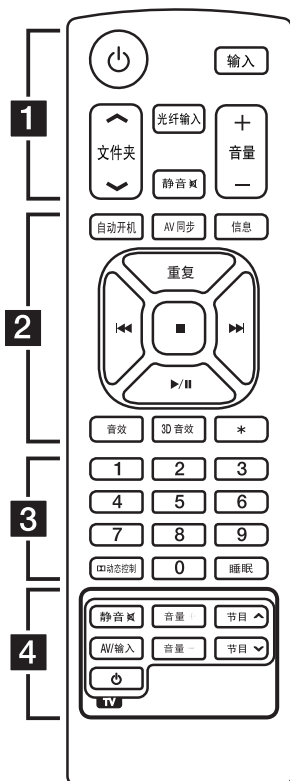
Playable file

MP3/ WMA 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)
- Maximum files : Under 999
- File extensions : ".mp3"/ ".wma"

Remote control



Battery Installation

Remove the battery cover on the rear of the Remote Control, and insert two (size AAA) battery with $+$ and $-$ matched correctly.

..... **1**

⏻ (Power): Switches the unit ON or OFF.

输入: Changes input sources.

^ / V 文件夹: Searches for a folder of MP3/WMA files. When an USB containing MP3/WMA files in several folders is being played, press **^ / V 文件夹** to select the folder you want to play.

光纤输入: Changes input source to optical directly.

静音 𠂇: Mutes the sound.

-/+ 音量: Adjusts speaker volume.

..... **2**

自动开机: This function is automatically turned on the unit.

AV 同步: Synchronizes the audio and video.

信息: Displays the file or input source information.

重复: Listens to your files repeatedly or randomly.

⏮ / ⏭ (Skip/ Search) :

- Skips Fast backward or Forward.

- Searches for a section within a track.

■: Stops playback.

▶ / ⏸: Starts playback. / Pauses playback.

音效: Selects a sound effect mode.

3D 音效: Turns on and off the 3D Sound mode.

★: This button is not available.

..... **3**

0 to 9 numerical buttons: Selects numbered files. Enters the PIN code.

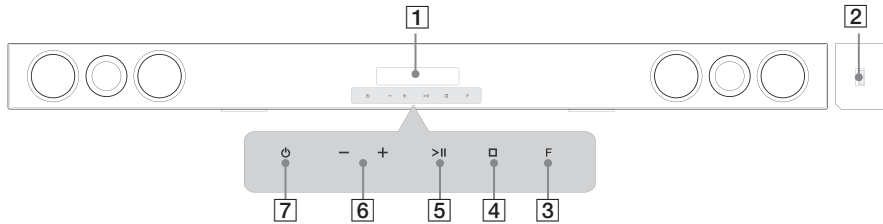
动态控制: Sets the Dolby DRC.

睡眠: Sets the system to turn off automatically at a specified time.

..... **4**

TV Control buttons: See page 19.

Front panel



- 1** Display
- 2** USB Port
- 3** **F** (Function)
Press it repeatedly to select other function.
- 4** **■** (Stop)
- 5** **>||** (Play / Pause)
- 6** **- / +** (Volume)
Adjusts speaker volume.
- 7** **⏻** (Standby/On)

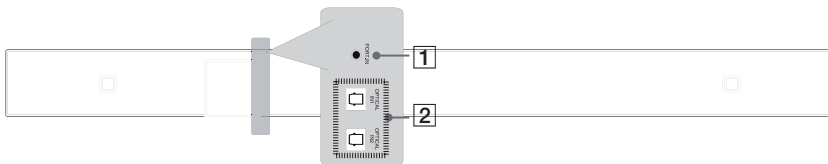


Caution

Precautions in using the touch buttons

- Use the touch buttons with clean and dry hands.
- In a humid environment, wipe out any moisture on the touch buttons before using.
- Do not press the touch buttons hard to make it work.
- If you apply too much strength, it can damage the sensor of the touch buttons.
- Touch the button that you want to work in order to operate the function correctly.
- Be careful not to have any conductive material such as metallic object on the touch buttons. It can cause malfunctions.

Rear panel



1 PORT. (Portable) IN

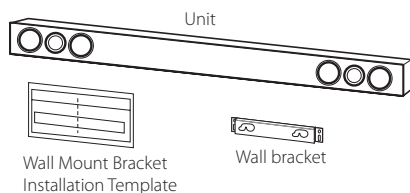
2 OPTICAL IN 1 / 2

Mounting the main unit on a wall

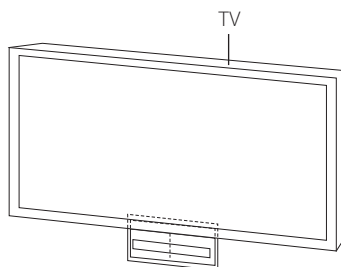
You can mount the main unit on a wall.
Prepare screws and brackets.

2

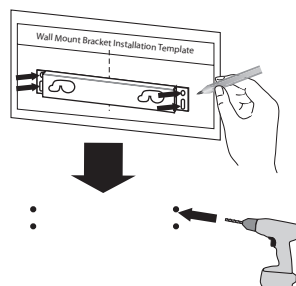
Connecting



1. Match the TV's BOTTOM EDGE of Wall Mount Bracket Installation Template with the bottom of TV and attach to the position.



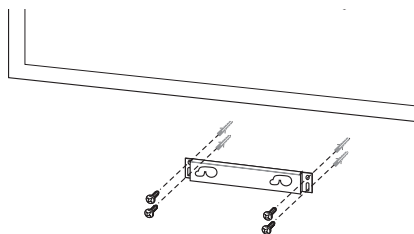
2. When you mount it on a wall (concrete), use the wall plugs (Not supplied). You should drill some holes. A guide sheet (Wall Mount Bracket Installation Template) is supplied to drill. Use the sheet to check the point to drill.



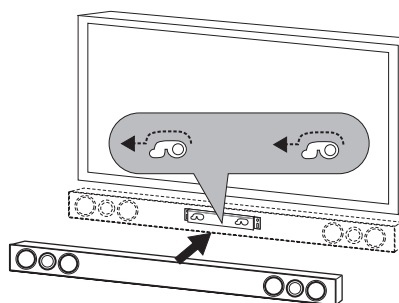
! Note

Screws and Wall Plugs are not supplied for mounting the unit. We recommend the Hilti (HUD-1 6 x 30) for the mounting. Please purchase it.

3. Remove the Wall Mount Bracket Installation Template.
4. Fix it with screws (not supplied) as shown in the illustration below.



5. Hang the main unit onto the bracket as shown below.



2

Connecting

⚠ Caution

- Do not hang onto the installed unit and avoid any impact to the unit.
- Secure the unit firmly to the wall so that it does not fall off. If the unit falls off, it may result in an injury or damage to the product.
- When the unit is installed on a wall, please make sure that a child does not pull any of connecting cables, as it may cause it to fall.

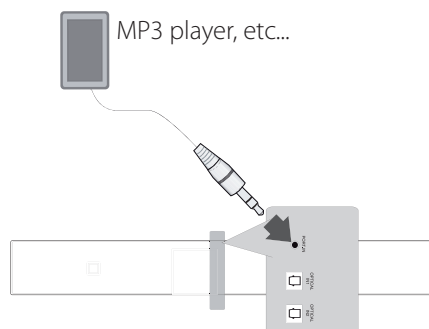
! Note

Detach the unit from the bracket as shown below.



Optional Equipment Connection

PORT. (Portable) IN Connection



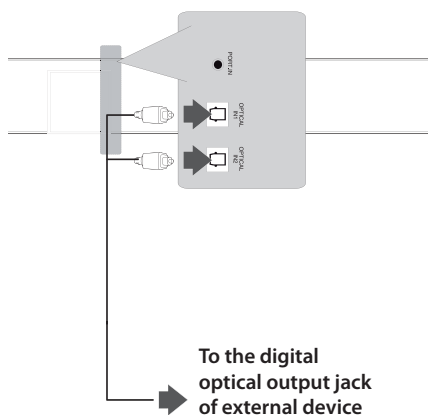
Listening to music from your portable player

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. (Portable) IN connector of the unit.
2. Turn the power on by pressing (Power).
3. Select the PORTABLE function by pressing 输入.
4. Turn on the portable player or external device and start playing it.

OPTICAL In connection

Connect an optical output of external devices to the OPTICAL IN 1/2 connector.



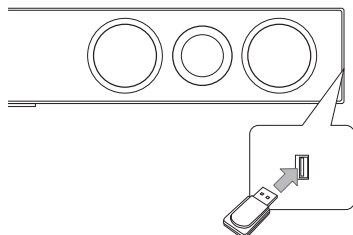
Speaker ez (easy) setup

Listens to sound from TV or DVD or Digital Device with 2.1 or 2ch mode.


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

USB Playback

Insert USB memory device to the USB port on the right side 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 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 minutes 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.
- 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.
- The unit's USB Port cannot be connected to PC. The unit can not be used as a storage device.

Basic Operations

USB Operation

1. Connect the USB device to the USB port.
2. Select the USB function by pressing **输入**.
3. Select a file you want to play by pressing **◀◀** or **▶▶**.

To	Do this
Stop	Press ■ .
Playback	Press ▶ / .
Pause	Press ▶ / .
Skipping to the next/ previous file	During playback, press ◀◀ or ▶▶ to go to the next file or to return to the beginning of the current file. Press ◀◀ twice briefly to step back to the previous file.
Searching for a section within a file	Press and hold ◀◀/▶▶ during playback and release it at the point you want to listen to.
Playing repeatedly or randomly	Press 重复 on the remote control repeatedly, the display change in the following order, RPT 1 → RPT D (DIRECTORY) → RPT ALL → RANDOM → OFF.
Selecting files directly	Press 0 to 9 numerical buttons on the remote control to go to the desired file directly.

Other Operations

DOLBY DRC (Dynamic Range Control)

Make the sound clear when the volume is turned down (Dolby Digital only). Set to [DRC ON] by using **动态控制**.

AV Sync

When receiving audio signals from TV, sound and images may not be matched. In the case, this function can adjust the delay time.

1. Press **AV 同步**.
2. Use **◀◀▶▶** to scroll up and down through the delay amount, which you can set at anything between 0 and 300m/sec.

AUTO POWER On/Off

Before operating this function, make sure that you have selected OPTICAL IN and turn on the AUTO POWER. This function automatically turns on/off the unit when you turn on/off the external device (TV, DVD Player, Blu-ray Disc Player, etc.) connected to this unit by the optical cable. This function turns on or off each time you press **自动开机**.

Display	Operation
AUTO POWER ON	AUTO POWER function is turned on.
AUTO POWER OFF	AUTO POWER function is turned off.

Note

- This function is intentionally designed to turn off the unit after 15 minutes of inactivity. If you did not connect external devices with optical cable or there is no digital audio signal going to the unit, the unit will turn off after 15 minutes of inactivity if AUTO POWER function is turned on.
- Depending on the connected device by the optical cable, this function may not operate.

Sleep Timer Setting

Press **睡眠** 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 **睡眠**.

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



Note

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

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

Dimmer

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

Turn off the sound temporarily

Press **静音** to mute your unit.

You can mute your unit, for example, to answer the telephone, the "MUTE" is displayed in the display window.

Displaying file and input source

You can display various information on the USB and OPTICAL IN 1/2 mode by pressing **信息**.

USB : MP3/WMA containing file information

OPTICAL IN 1/2 : Audio format, Audio channel

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 音效.

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

! 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 file changed.

3

Operating

On Display	Description
NATURAL	You can enjoy comfortable and natural sound.
BYPASS	You can enjoy the sound without equalizer effect.
BASS	The BASS is Bass Blast. During playback, reinforce the treble, bass and surround sound effect.
CLRVOICE	The CLRVOICE is Clear Voice. 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	The GAME is Game Equalizer. You can enjoy more virtual sound while playing video games.
NIGHT	The NIGHT is Night Mode. This may be useful when you want to watch movies at low volume late at night.
UPSCALER	The UPSCALER is MP3 Up-Scaling. 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.

3D Sound Effect

3D Sound features deliver sound creating a wider spot so you can enjoy more immersive and cinematic surround sound. Press 3D 音效 to turn on or off the 3D Sound mode.

Using Bluetooth 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)

Listening to music stored on the Bluetooth devices

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 輸入. 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 code : 0000
4. When this unit successfully paired with your Bluetooth device, Bluetooth LED of this unit lights up and appears "PAIRED".

Note

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

5. Listen to music.
To play a music stored on your Bluetooth device, refer to your Bluetooth device's user guide.

Note

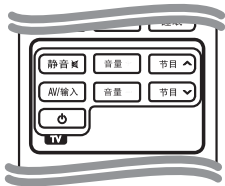
If you change the function of the unit, the Bluetooth function is disconnected, operate pairing again.
(Bluetooth ↔ Function other than the Bluetooth)

Note

- The sound may be interrupted when the connection interfered by the other electronic wave.
- 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, 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.

Controlling a TV with the Supplied Remote Control

You can control your TV using the buttons below.



Button	Operation
静音 ㄹ	Turn the TV's volume on or off
AV/输入	Switch the TV's input source between the TV and other input sources.
⏻ (TV POWER)	Turn the TV on or off.
音量 +/-	Adjust the volume of the TV.
节目 ^ / v	Scan up or down through memorized channels.

Note

Depending on the unit being connected, you may not be able to control your TV using some of the buttons.

Setting up the remote to control your TV

You can operate your TV with the supplied remote control.
If your TV is listed in the table below, set the appropriate manufacturer code.

1. While holding down ⏻ (TV POWER) button, and press the manufacturer code for your TV with the numerical buttons (see the table below).

Manufacturer	Code Number
LG	1(Default), 2
Zenith	1, 3, 4
GoldStar	1, 2
Samsung	6, 7
Sony	8, 9
Hitachi	4

2. Release the ⏻ (TV POWER) button to complete setting.

Depending on your TV, some or all buttons may not function on the TV, even after entering the correct manufacturer code. When you replace the batteries of the remote, the code number you have set may be reset to the default setting. Set the appropriate code number again.

Troubleshooting

PROBLEM	CORRECTION
No Power	Plug in the power cord.
	Check the condition by operating other electronic devices.
No sound	Press 輸入 and check the selected function.
The remote control does not work properly.	The remote control is too far from the unit. Operate the remote control within about 23 ft (7m).
	There is an obstacle in the path of the remote control and the unit. Remove the obstacle.
	The battery in the remote control is exhausted. Replace the batteries with new one.
The AUTO POWER function does not work.	Depending on the connected device by the optical cable, this function may not operate.

4

Troubleshooting

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, benzine, or thinner, as these might damage the surface of the unit.

Trademarks and Licenses



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



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




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.

Specifications

General	
Power requirements	Refer to the main label.
Power consumption	Refer to the main label.
Dimensions (W x H x D)	1 000 x 80 x 55 mm without foot
Net Weight (Approx.)	3.0 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	
DIGITAL IN (OPTICAL IN)	3 V (p-p), Optical jack x 2
PORT. IN	0.5Vrms (3.5 mm stereo jack)

Amplifier	
Stereo mode	80 W + 80 W (4 Ω at 1 kHz)

Designs and specifications are subject to change without prior notice.

