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

NB3520A (NB3520A, SHS36-D)
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 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. hen 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.
IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings.
   Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
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Unique Features

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 (1)
- 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.
2. INPUT: Changes input sources.
3. / FOLDER: Searches for a folder of MP3/WMA files. When an USB containing MP3/WMA files in several folders is being played, press / FOLDER to select the folder you want to play.
4. OPTICAL: Changes input source to optical directly.
5. MUTE: Mutes the sound.
6. +/- VOL: Adjusts speaker volume.
7. AUTO POWER: This function is automatically turned on the unit.
8. AV SYNC: Synchronizes the audio and video.
9. INFO: Displays the file or input source information.
10. REPEAT: Listens to your files repeatedly or randomly.
11. (Skip/Search):
    - Skips Fast backward or Forward.
    - Searches for a section within a track.
12. : Stops playback.
13. : Starts playback. / Pauses playback.
14. SOUND EFFECT: Selects a sound effect mode.
15. 3D SOUND: Turns on and off the 3D Sound mode.
16. WOOFER LEVEL: Sets the sound level of woofer.
17. 0 to 9 numerical buttons: Selects numbered files. Enters the PIN code.
18. DOLBY DRC: Sets the Dobly DRC.
19. SLEEP: Sets the system to turn off automatically at a specified time.

TV Control buttons: See page 20.
Front panel

1. Display
2. USB Port
3. F (Function)
   - Press it repeatedly to select other function.
4. (Stop)
5. >II (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.

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.

---

**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.
Setting up

Pairing wireless subwoofer

LED indicator of wireless subwoofer

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue or yellow</td>
<td>The wireless subwoofer is receiving the signal of the unit.</td>
</tr>
<tr>
<td>Blue or yellow (blink)</td>
<td>The wireless subwoofer is trying to connect.</td>
</tr>
<tr>
<td>Red</td>
<td>The Wireless subwoofer is in standby mode.</td>
</tr>
<tr>
<td>Off (No display)</td>
<td>The power cord of wireless subwoofer is disconnected.</td>
</tr>
</tbody>
</table>

Setting up the wireless subwoofer for the first time

1. Connect the power cord of the Wireless subwoofer to the outlet.
2. Turn on the main unit : The main unit and wireless subwoofer will be automatically connected.

Manually pairing wireless subwoofer

When your connection is not completed, you can see the red LED on the woofer and woofer is not made sound. To solve the problem, follow the below steps.

1. Press and hold STOP button on the unit and MUTE button on the remote control simultaneously.
   - Displays the “REMate”.
2. Press PAIRING on back of the woofer.
   - The blue or yellow LED will flicker
3. Turn off and on the unit.
   - If you see “blue or yellow” LED, it’s successful.
4. If you don’t see “blue or yellow” LED, try again Step 1 - Step 3.

Note

- If you operate main unit then wireless subwoofer sound within a few seconds in standby mode.
- Set the distance between this unit and wireless subwoofer within 10 m (32 ft.).
- Optimum performance can be implemented only when the unit and the Wireless subwoofer within distance of 2 m (6 ft.) to 10 m (32 ft.) is used since communication failure may occur if longer distance is used.
- It takes a few seconds (and may take longer) for the unit and subwoofer to communicate with each other.
Optional Equipment Connection

PORT. (Portable) IN Connection

MP3 player, etc...

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 \( \text{Power} \).
3. Select the PORTABLE function by pressing \( \text{INPUT} \).
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.

TO the digital optical output jack of external device

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 \( \text{OPTICAL} \).
3. Listen to sound with 2.1 or 2ch speaker.
4. Press \( \text{OPTICAL} \) to exit from OPTICAL 1/2. Function is retuned to previous one.
USB Playback
Insert USB memory device to the USB port on the right side of 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.

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.
### Basic Operations

#### USB Operation
1. Connect the USB device to the USB port.
2. Select the USB function by pressing **INPUT**.
3. Select a file you want to play by pressing ⬅️ or ➤️.

<table>
<thead>
<tr>
<th>To</th>
<th>Do this</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop</td>
<td>Press ■.</td>
</tr>
<tr>
<td>Playback</td>
<td>Press ➤️/ ▶️.</td>
</tr>
<tr>
<td>Pause</td>
<td>Press ➤️/ ▶️.</td>
</tr>
<tr>
<td>Skipping to the next/previous file</td>
<td>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.</td>
</tr>
<tr>
<td>Searching for a section within a file</td>
<td>Press and hold ⬅️/▶️ during playback and release it at the point you want to listen to.</td>
</tr>
<tr>
<td>Playing repeatedly or randomly</td>
<td>Press REPEAT on the remote control repeatedly, the display change in the following order, RPT 1 → RPT D (DIRECTORY) → RPT ALL → RANDOM → OFF.</td>
</tr>
<tr>
<td>Selecting files directly</td>
<td>Press 0 to 9 numerical buttons on the remote control to go to the desired file directly.</td>
</tr>
</tbody>
</table>

### 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 ⬅️ DOLBY DRC.

#### 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 SYNC.
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 AUTO POWER.

<table>
<thead>
<tr>
<th>Display</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO POWER ON</td>
<td>AUTO POWER function is turned on.</td>
</tr>
<tr>
<td>AUTO POWER OFF</td>
<td>AUTO POWER function is turned off.</td>
</tr>
</tbody>
</table>

⚠️ **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 SLEEP one or more times to select delay time between 10 and 180 minutes, after the unit will turn off.
To check the remaining time, press SLEEP.
To cancel the sleep function, press SLEEP repeatedly until “SLEEP 10” appears, and then press SLEEP once again while “SLEEP 10” is displayed.

**Note**
You can check the remaining time before the Unit turns off.
Press SLEEP. The remaining time appears in the display window.

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

Turn off the sound temporarily
Press MUTE to mute your unit.
You can mute your unit, for example, to answer the telephone, the “🔇” is displayed in the display window.

Adjust the woofer level settings
You can adjust the sound level of woofer.
1. Press WOOFER LEVEL.
2. Press +/- VOL to adjust the sound level of the woofer.

Displaying file and input source
You can display various information on the USB and OPTICAL IN 1/2 mode by pressing INFO.
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 SOUND EFFECT.

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

<table>
<thead>
<tr>
<th>On Display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATURAL</td>
<td>You can enjoy comfortable and natural sound.</td>
</tr>
<tr>
<td>BYPASS</td>
<td>You can enjoy the sound without equalizer effect.</td>
</tr>
<tr>
<td>BASS</td>
<td>The BASS is Bass Blast. During playback, reinforce the treble, bass and surround sound effect.</td>
</tr>
<tr>
<td>CLRVOICE</td>
<td>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.)</td>
</tr>
<tr>
<td>GAME</td>
<td>The GAME is Game Equalizer. You can enjoy more virtual sound while playing video games.</td>
</tr>
<tr>
<td>NIGHT</td>
<td>The NIGHT is Night Mode. This may be useful when you want to watch movies at low volume late at night.</td>
</tr>
<tr>
<td>UPSCALER</td>
<td>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.</td>
</tr>
<tr>
<td>LOUDNESS</td>
<td>Improves the bass and treble sound.</td>
</tr>
</tbody>
</table>

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.

3D Sound Effect

3D Sound features deliver sound creating a wider spot so you can enjoy more immersive and cinematic surround sound. Press 3D SOUND 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 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 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.

<table>
<thead>
<tr>
<th>Button</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUTE ｶﾞ</td>
<td>Turn the TV’s volume on or off</td>
</tr>
<tr>
<td>AV/INPUT</td>
<td>Switch the TV’s input source between the TV and other input sources.</td>
</tr>
<tr>
<td>멸 (TV POWER)</td>
<td>Turn the TV on or off.</td>
</tr>
<tr>
<td>VOL +/-</td>
<td>Adjust the volume of the TV.</td>
</tr>
<tr>
<td>PR/CH ｳ/crear</td>
<td>Scan up or down through memorized channels.</td>
</tr>
</tbody>
</table>

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 멸 (TV POWER) button, and press the manufacturer code for your TV with the numerical buttons (see the table below).

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Code Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG</td>
<td>1 (Default), 2</td>
</tr>
<tr>
<td>Zenith</td>
<td>1, 3, 4</td>
</tr>
<tr>
<td>GoldStar</td>
<td>1, 2</td>
</tr>
<tr>
<td>Samsung</td>
<td>6, 7</td>
</tr>
<tr>
<td>Sony</td>
<td>8, 9</td>
</tr>
<tr>
<td>Hitachi</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Release the 멸 (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

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CORRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Power</td>
<td>Plug in the power cord.</td>
</tr>
<tr>
<td></td>
<td>Check the condition by operating other electronic devices.</td>
</tr>
<tr>
<td>No sound</td>
<td>Press INPUT and check the selected function.</td>
</tr>
<tr>
<td></td>
<td>The power cord of woofer is not connected. Plug the power cord into the wall outlet securely.</td>
</tr>
<tr>
<td></td>
<td>Pairing between the unit and woofer gets disconnected. Connect the unit and woofer. (Refer to the page 12)</td>
</tr>
<tr>
<td>The remote control does not work</td>
<td>The remote control is too far from the unit.</td>
</tr>
<tr>
<td>properly.</td>
<td>Operate the remote control within about 23 ft (7m).</td>
</tr>
<tr>
<td></td>
<td>There is an obstacle in the path of the remote control and the unit.</td>
</tr>
<tr>
<td></td>
<td>Remove the obstacle.</td>
</tr>
<tr>
<td></td>
<td>The battery in the remote control is exhausted.</td>
</tr>
<tr>
<td></td>
<td>Replace the batteries with new one.</td>
</tr>
<tr>
<td>The AUTO POWER function does not</td>
<td>Depending on the connected device by the optical cable, this function may not operate.</td>
</tr>
<tr>
<td>work.</td>
<td></td>
</tr>
</tbody>
</table>

---

**Note:**
- Refer to the page 12 for further instructions on disconnecting and reconnecting the unit and woofer.
- Ensure all connections are secure and free from obstructions.
- Replace batteries regularly to maintain optimal performance.
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.

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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.

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### Specifications

<table>
<thead>
<tr>
<th>General</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>Refer to main label.</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Refer to main label.</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>(39.3 x 3.1 x 2.1) inches without foot</td>
</tr>
<tr>
<td>Net Weight (Approx.)</td>
<td>6.6 lbs</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>41 °F to 95 °F (5 °C to 35 °C)</td>
</tr>
<tr>
<td>Operating humidity</td>
<td>5 % to 90 %</td>
</tr>
<tr>
<td>Bus Power Supply (USB)</td>
<td>DC 5 V ± ± ± 500 mA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inputs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DIGITAL IN (OPTICAL IN)</td>
<td>3 V (p-p), Optical jack x 2</td>
</tr>
<tr>
<td>PORT. IN</td>
<td>0.5Vrms (3.5 mm stereo jack)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amplifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stereo mode</td>
<td>80 W + 80 W (4 Ω at 1 kHz)</td>
</tr>
<tr>
<td>Subwoofer</td>
<td>140 W (3 Ω at 60 Hz)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wireless subwoofer</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirements</td>
<td>Refer to main label on the Subwoofer.</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Refer to main label on the Subwoofer.</td>
</tr>
<tr>
<td>Type</td>
<td>1 Way 1 Speaker</td>
</tr>
<tr>
<td>Impedance Rated</td>
<td>3 Ω</td>
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<tr>
<td>Input Power</td>
<td>140 W</td>
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<tr>
<td>Max. Input Power</td>
<td>280 W</td>
</tr>
<tr>
<td>Net Dimensions (W x H x D)</td>
<td>(8 x 15 x 12) inches</td>
</tr>
<tr>
<td>Net Weight</td>
<td>15.2 lbs</td>
</tr>
</tbody>
</table>

Designs and specifications are subject to change without prior notice.