LG
Life's Good

ENGLISH

OWNER'S MANUAL

DOCKING SPEAKER
MUSIC IN STYLE

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

ND8520

MFL67562912

www.lg.com

ND8520-FA.BCANLLK_ENG.indd 1 12. 6. 20. 5:28

Safety Information



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



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



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

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

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

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

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

This device is equipped with a portable battery or accumulator.

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

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

This Class B digital apparatus complies with Canadian ICES-003 "To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing."

Operation is subject to the following two conditions :
(1) This device may not cause Interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

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.

Table of Contents

1 Getting Started

2 Safety Information
5 Main Features
5 – Made for iPod/iPhone/iPad
5 – AirPlay®
5 – Portable In
5 – USB Playback
5 – Alarm
5 – Radio(FM)
5 – Time Sync
5 – LG Bluetooth Remote
5 Accessories
5 Introduction
5 – Symbol Used in This Manual
6 Playable File Requirement
6 – MP3/WMA Music File Requirement
6 – Compatible USB Devices
6 – USB Device Requirement
7 Remote Control
8 Front Panel
8 Back Panel
9 Top Panel
9 How to Affix the Ferrite Core
10 Control Panel
11 Setting the Clock
11 – Setting the Clock Automatically
11 – Setting the Clock Manually

2 Operating

12 Basic Operations
12 – iPod/iPhone/iPad Operation
12 – Compatible iPod/iPhone/iPad
13 – Using AirPlay
23 – USB Operation
24 – Listening to Music from Your External Device
24 – How to Affix the Ferrite Core
25 Radio Operations
25 – Antenna Connection
25 – Listening to the Radio
25 – Presetting the Radio Stations
25 – Deleting All the Saved Stations
25 – Improving Poor FM Reception
26 Using a Bluetooth Wireless Technology
26 – Listening to Music of a Bluetooth Device
27 – Using Bluetooth App
29 Other Operations
29 – Using Your Unit as an Alarm Clock
29 – Activate and Deactivate the Alarm Timer
29 – Stop Alarm Ring
29 – Snoozing
29 – Resume Playback
30 – Playing Repeatedly or Randomly (USB only)
30 – Dimmer
30 – Sleep Timer Setting
30 – Setting the Sound Mode
30 – Turning off the Sound Temporarily

3 Troubleshooting

31 Troubleshooting

4 Appendix

32 Trademarks and Licenses
32 Handling the Unit
33 Specifications

Main Features

Made for iPod/iPhone/iPad

Enjoys music from iPod/iPhone/iPad with simple connection.

AirPlay®

Portable In

Listens to music from your portable device.

USB Playback

Enjoys music from USB with simple connection.

Alarm

Sets alarm which go off at desired time.

Radio(FM)

Listens to the radio.

Time Sync

Sets this unit's clock automatically by connecting iPod/iPhone/iPad or by activating Bluetooth connection through "LG Bluetooth Remote" app.

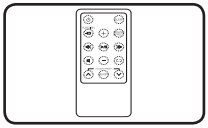
LG Bluetooth Remote

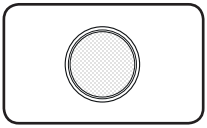
You can control this unit with your iPod touch/ iPhone/iPad or Android device via Bluetooth. This unit and your device must be paired for Bluetooth. Visit "Apple App Store" or "Google Android Market (Google Play Store)" or use the QR code shown below to search for "LG Bluetooth Remote" app. For detailed information, refer to page 27-28.

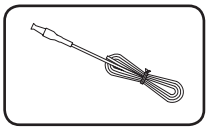
(Android OS) (Apple iOS)

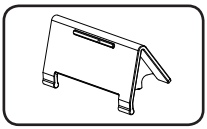
Accessories

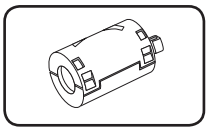
Please check and identify the supplied accessories.

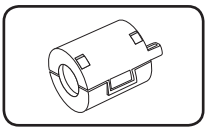

Remote control (1)


Battery (1)


FM antenna (1)


Stand for iPad (1)


Ferrite Core (1)


Ferrite Core (1)

Introduction

Symbol Used in This Manual

Note

Indicates special notes and operating features.

Caution

Indicates cautions for preventing possible damages from abuse.

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)
- Maximum files : Under 999
- Maximum folders : Under 99
- File extensions : ".mp3"/ ".wma"

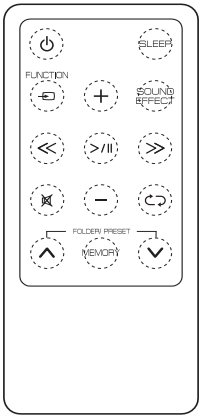
Compatible USB Devices

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

USB Device Requirement

- Devices which require additional program installation when you have connected it 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.
- 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, mobile phone are not supported.
- USB port of the unit cannot be connected to PC. The unit cannot be used as a storage device.
- Some USB may not work with this unit.
- This unit can charge iPod/iPhone by connecting it to USB port in power on.
- This unit cannot charge iPad by connecting it to USB port even in power on.
- When you connect smart phone by using USB port, you can only charge it in power on. (Some smart phone may not be charged.)

Remote Control



(POWER) : Switches the unit ON or OFF.

SLEEP : Sets the sleep timer.

FUNCTION : Selects the function and input source.

+/- (Volume) : Adjusts speaker volume.

SOUND EFFECT : Chooses sound impressions.

≪/≫(Skip/Search) :
- Skips Fast backward or Forward.
- Searches for a section within a file.

>/II(Play/Pause) : Starts or pauses playback.

: Mutes the sound.

: Selects a play mode. (ONE/DIR/ALL/ RAND(RANDOM)/OFF) (USB only)

FOLDER/PRESET ∧/∨ :
- Selects the folder or file you want to play. (USB only)
- Chooses a preset number for a radio station.

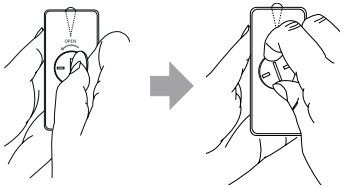
MEMORY :
- Stores the preset stations.
- Deletes the preset stations.

Caution

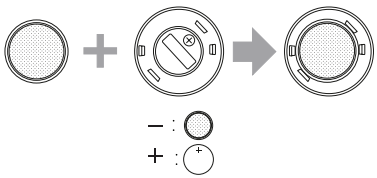
The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, incinerate, or heat above 100 °C (212 °F). Replace the battery part no. CR2025 only. Use of another battery may present a risk of fire or explosion. Dispose of used battery. Keep battery away from children. Do not disassemble or dispose of in fire.

Battery Installation

1. Turn the battery compartment lid counterclockwise by using a coin. Then take the battery compartment lid out.



2. Insert and fix the battery with the plus(+) facing in the same direction as the plus(+) on the battery compartment lid.



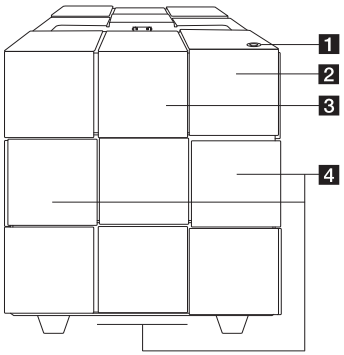
3. Put the battery compartment lid on the remote control and turn it clockwise to close.



Caution

Do not open the battery compartment lid by using your finger. Or else, your nail would be broken.

Front Panel



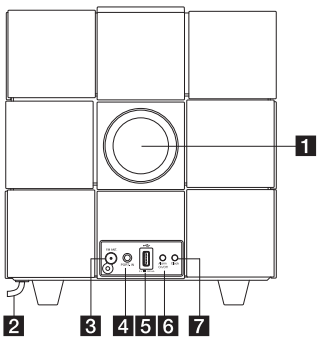
1 ⏻
Switches the unit ON or OFF.

2 **Remote Sensor**

3 **Control panel**

4 **Speaker**
This unit has a built-in subwoofer at the bottom.

Back Panel



1 **Speaker duct**

⚠ Caution

Be careful to make sure children not to put their hands or any objects into the speaker duct.

2 **AC power cord**

3 **FM ANT.**

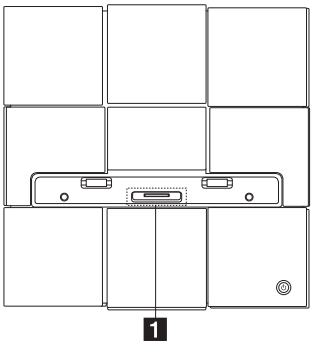
4 **PORT.IN (3.5 mm)**
Listens to music from your portable device.

5 **USB Port**
Plays music file by connecting the USB device.

6 **Alarm On/Off**
- Sets the alarm timer.
- Turns off the alarm.
- Displays alarm setting.

7 **Clock**
Sets the clock and checks the time.

Top Panel

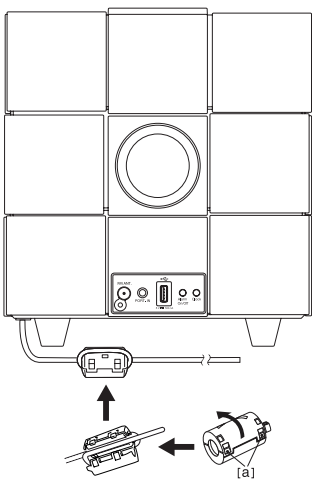


1 iPod/iPhone/iPad Dock
Connects an iPod/iPhone/iPad.

How to Affix the Ferrite Core

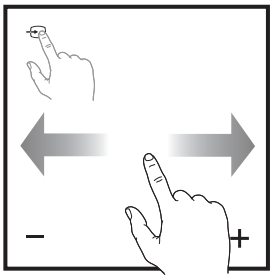
You must affix a big core (supplied with the model you purchased) in order to reduce or eliminate electrical interference.

1. Pull the stopper [a] of the ferrite core to open.
2. Wind the power cord around the ferrite core once.
3. Close the ferrite core until it clicks.

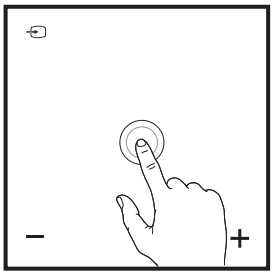


Control Panel

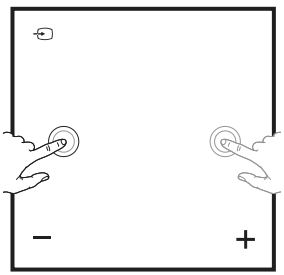
- **Switch function :**
  Taps ⏎ or swipes left or right with your finger.
  Selects the function and input source.
  (IPOD/BT(Bluetooth)/PORT/FM/USB/AIR)



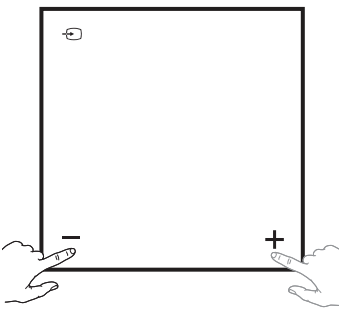
- **Play/Pause :**
  - Taps the center position to play back or pause.
  - Selection.



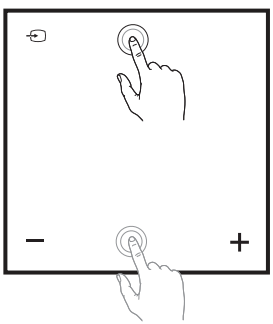
- **Skip/Search :**
  - Skips Fast backward or Forward.
  - Searches for a section within a file.



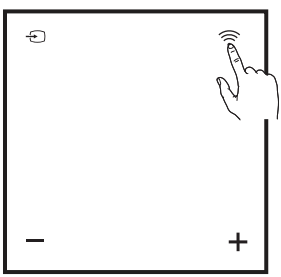
- **-/+ (Volume) :**
  Adjusts speaker volume.



- **Up/Down :**
  - Selects the folder or file you want to play. (USB only)
  - Chooses a preset number for a radio station.



- **:**
  - Connects this unit to a Wi-Fi network.
  - Appears only in "AIR" mode.



Setting the Clock

Note

If the power has been interrupted or the power plug has been disconnected, the clock setting is erased.

Setting the Clock Automatically

Note

- Make sure that your iPod/iPhone/iPad or your Android device has set the clock correctly.
- In standby mode, the clock will not synchronize with your iPod/iPhone/iPad or your Android device.
- In auto clock synchronization, "LG Bluetooth Remote" app has priority over the docking system.
- The 24 hour format can be set only for Android OS.

Setting the Clock by Synchronizing with Your iPod/iPhone/iPad

Connect the iPod/iPhone/iPad firmly. Then the clock setting in the control panel will synchronize with your iPod/iPhone/iPad.

Note

The synchronized time may be slightly different from that of your iPod/iPhone/iPad.

Setting the Clock through "LG Bluetooth Remote" App

Install "LG Bluetooth Remote" app on your iPod touch/iPhone/iPad or your Android device. (see page 27-28)

Your unit's clock will be automatically synchronized with your device by activating Bluetooth connection through "LG Bluetooth Remote" app.

Setting the Clock Manually

If necessary, you can set the clock manually.

1. Press and hold **Clock** on the back panel for two seconds.
   - The clock digits begin to blink.
2. Press ⏮ / ⏭ to select the 12/24 hour format.
   - 12:00 (for a PM display) or 0:00 (for a 24 hour display)
3. Press ⏯.
   - The hour digits begin to blink.
4. Press ⏮ / ⏭ to set the hour.
5. Press ⏯.
   - The minutes digits begin to blink.
6. Press ⏮ / ⏭ to set the minute.
7. Press ⏯.

Note

If you want to reset the clock, repeat steps 1-7.

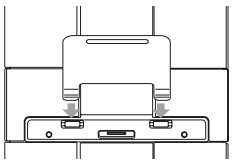
Basic Operations

iPod/iPhone/iPad Operation

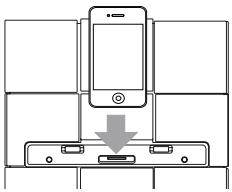
You can enjoy the sound from your iPod/iPhone/iPad through this unit. For details about iPod/iPhone/iPad, refer to the iPod/iPhone/iPad User Guide.

Note

- You are recommended to remove the case for your iPod/iPhone/iPad before you place your iPod/iPhone/iPad into the dock.
- Install the supplied stand for iPad to keep iPad stable before you place the iPad.



1. Connect the iPod/iPhone/iPad firmly. When this unit is connected to power, your iPod/iPhone/iPad is automatically turned on and starts recharging even in standby mode.



2. Press **FUNCTION** or to select IPOD function.

To	Do this
Play	Press >/II
Pause	During playback, Press >/II
Skip	During playback, press ≪ / ≫ to go to the next file or to return to the beginning of the current file. During playback, press ≪ twice briefly to step back to the previous file.
Search	Press and hold ≪ / ≫ during playback and release it at the point you want to listen to.

Compatible iPod/iPhone/iPad

The unit supports the models as follows ;

- iPod touch 1G, 2G, 3G, 4G
- iPod nano 2G, 3G, 4G, 5G, 6G
- iPhone 3G / iPhone 3GS
- iPhone 4 / iPhone 4S
- iPad / iPad 2

Note

- An error message "ERROR" appears when :
  - your iPod/iPhone/iPad is not connected firmly.
  - this unit recognizes your iPod/iPhone/iPad as an unknown device.
  - your iPod/iPhone/iPad is exceptionally low in power.
    - ➡ The battery needs to be charged.
    - ➡ If you charge the battery while iPod/iPhone/iPad is extremely low in power, it may take longer to be charged.
- You may not control your iPod/iPhone/iPad from this unit due to malfunction of iPod/iPhone/iPad.
- Depending on your iPod/iPhone/iPad's software version, it may not be possible to control your iPod/iPhone/iPad from this unit. We recommend installing the latest software version.
- If you use an application, make a call, or send and receive SMS text message, etc. on iPod touch/iPhone/iPad, disconnect it from iPod touch/iPhone/iPad dock of this unit and then use it.
- If you have a problem with your iPod/iPhone/iPad, please visit www.apple.com/support.
- iPod touch, iPhone and iPad 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")

Using AirPlay

Apple AirPlay technology enables you to play your iTunes music library, hosted on a Mac, PC, iPhone, iPod touch, or iPad on any AirPlay-enabled device (for example, your ND8520) connected to the Wi-Fi network.

To stream audio wirelessly by AirPlay, you need :

- A Wi-Fi certified router
- A host for your iTunes music library, for example, an iPod touch/iPhone/iPad installed with iOS 4.3.3 (or later) or a Wi-Fi enabled PC/Mac installed with iTunes 10.2.2 (or later)

Compatible iPod/iPhone/iPad

The unit supports the models as follows ;

- iPod touch 3G, 4G
- iPhone 3GS
- iPhone 4 / iPhone 4S
- iPad / iPad 2

This unit should be connected to the same local network as your iTunes host device through the Wi-Fi router.

Connect to Your Home Wi-Fi Network for AirPlay

To connect this unit to your existing home Wi-Fi network, you need to apply your home Wi-Fi setting to this unit.

Once connected successfully, this unit will remember your home Wi-Fi settings. Then you can enjoy AirPlay whenever this unit is powered on and connected to your home Wi-Fi network automatically.

Before connection of this unit to your home Wi-Fi network, check the points below.

1. Make sure that your Wi-Fi router is powered on and working properly.
2. Make sure that this unit has been powered on and booted up successfully.

Connecting to Your Home Wi-Fi Router

To connect this unit to a Wi-Fi router, you need access to this unit's built-in configuration web page for change of its internal Wi-Fi settings. To do so, you need a Wi-Fi enabled device with an Internet browser for temporary Wi-Fi connection to this unit. The Wi-Fi enabled device can be an iPod touch/iPhone/iPad or a Wi-Fi enabled PC/Mac.

Follow the sequence below for connection of this unit to your home Wi-Fi router

1. Collect settings of your home Wi-Fi router and write down on paper for use during this unit Wi-Fi setup (see "Collect Settings of Your Home Wi-Fi Router" on page 14).
2. Switch this unit to Assisted Wi-Fi Setup mode (see "Switch This Unit to Assisted Wi-Fi Setup Mode" on page 14).
   - A new Wi-Fi network created by this unit will appear, with the network name (SSID) of "LG AUDIO Setup XXXXXX".
3. Connect your Wi-Fi enabled device to the created new Wi-Fi network temporarily (see "Connect Your Wi-Fi Enabled Device to the Newly Created Wi-Fi Network" on page 15).
4. Open the built-in web page of this unit with the Internet Browser of your Wi-Fi enabled device (see "Open the Built-in Web Page of This Unit" on page 17).
5. Connect your unit (ND8520) to the available Wi-Fi network based on the settings you wrote on paper at step 1 (see "Connect Your Unit (ND8520) to the Available Wi-Fi Network" on page 18).
6. Restore your Wi-Fi enabled device back to your existing home Wi-Fi settings (see "Restore Your Wi-Fi Enabled Device Back to Your Existing Home Wi-Fi Setting" on page 20).

Collect Settings of Your Home Wi-Fi Router

Note

Always consult the user guide of your home Wi-Fi router for detailed instructions.

1. Connect your Wi-Fi enabled device to your existing home Wi-Fi network.
2. Launch the Internet browser (for example, Apple Safari or Microsoft Internet Explorer) on your Wi-Fi enabled device.
3. Open the configuration page of your home Wi-Fi router.
4. Find the Wi-Fi settings tab and write down the following information on paper :
   - Network name (SSID)
   - Wi-Fi security mode (usually WEP, WPA or WPA2 if enabled)
   - If the security mode of your home Wi-Fi router is "WEP", this unit supports only "OPEN".
   - Wi-Fi password (if Wi-Fi security is enabled)
   - DHCP mode (enabled or disabled)
   - Static IP address settings (if DHCP mode is disabled)

Switch This Unit to Assisted Wi-Fi Setup Mode

1. Press **FUNCTION** or to select "AIR" function.
2. Press and hold, and release on the control panel of this unit until "STEP1" message appears.
   - Airplay icon blinks and "STEP1" message appears on the control panel of this unit.



   - A new Wi-Fi network of this unit itself is created, with the network name (SSID) of "LG AUDIO Setup XXXXXX".
   - It takes about 30 seconds and more for successful creation of this new Wi-Fi network.

Note

After you finish manual Wi-Fi setting for this unit, this new Wi-Fi network disappears.

Connect Your Wi-Fi Enabled Device to the Newly Created Wi-Fi Network

The new Wi-Fi network created by this unit only allows access of one Wi-Fi enabled device. To avoid interference from any other Wi-Fi devices, you are recommended to temporarily disable the Wi-Fi function on your other Wi-Fi devices.

Note

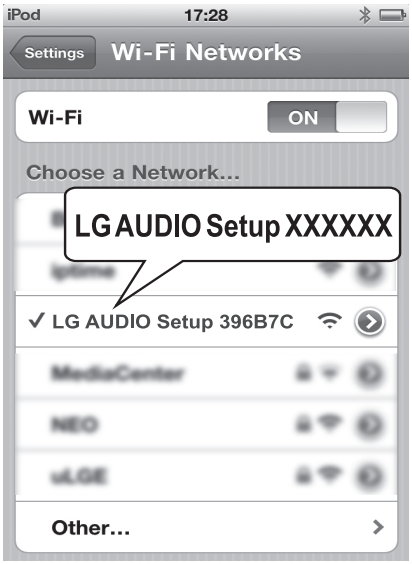
- "LG AUDIO Setup XXXXXX" is the temporary and assistant Wi-Fi network for connection of this unit to your home Wi-Fi router.
- While your iPod touch/iPhone/iPad or your Wi-Fi enabled PC/Mac is connecting to "LG AUDIO Setup XXXXXX" network, you can not be able to use the Internet on them.

Option 1 : Use your iPod touch/iPhone/iPad

1. Select "Settings" -> "Wi-Fi" on your iPod touch/ iPhone/iPad.



2. Select "LG AUDIO Setup XXXXXX" from the list of available networks.



- "STEP2" message appears on the control panel of this unit.



3. Wait until successful Wi-Fi connection on your iPod touch/iPhone/iPad.
   - is displayed at the upper left corner of your iPod touch/iPhone/iPad.
   - During this procedure, AirPlay icon keeps blinking.

Note

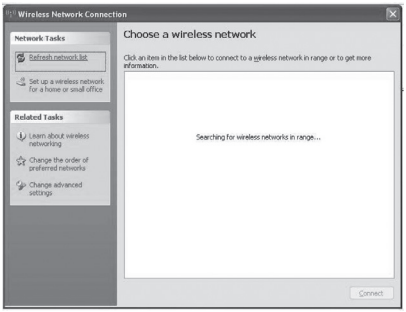
If "LG AUDIO Setup XXXXXX" is not in the list, try to scan the available Wi-Fi networks again.

Option 2 : Use your Wi-Fi enabled PC/Mac

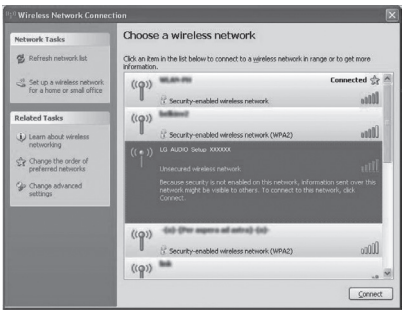
Note

- See the user guide of your PC/Mac for how to connect your PC/Mac to a Wi-Fi network.
- During Wi-Fi network connection, do not connect any network cable to your PC/Mac.

1. Open the Wi-Fi setup tool or control panel on your PC/Mac.
2. Scan the available Wi-Fi networks.



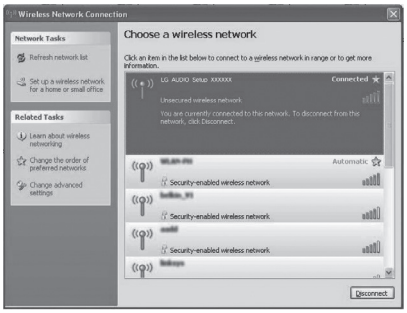
3. Select "LG AUDIO Setup XXXXXX" from the list of available networks.



- "STEP2" message appears on the control panel of this unit.



4. Wait until successful Wi-Fi connection on your PC/Mac.



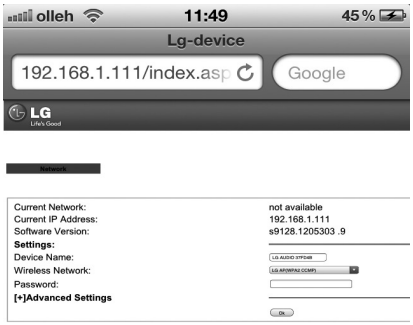
- During this procedure, AirPlay icon keeps blinking on the control panel of this unit.

Note

If "LG AUDIO Setup XXXXXX" is not in the list, try to scan the available Wi-Fi networks again.

Open the Built-in Web Page of This Unit

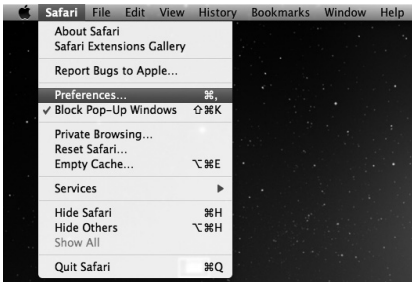
1. Launch Apple Safari browser or Microsoft Internet Explorer browser on your Wi-Fi enabled device.
2. Type in "192.168.1.111" at the browser address bar and confirm.
   - This unit configuration web page is displayed.



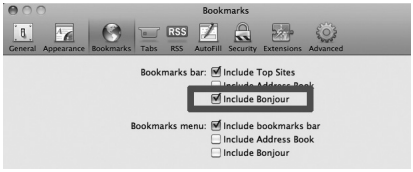


If you use Safari on your Wi-Fi enabled PC/Mac, you can also select "LG AUDIO XXXXXX" from the Bonjour pull-down list to enter the this unit configuration web page directly.

1. Click "Safari" -> "Preferences". (Mac)
   Click "⚙" -> "Preferences". (PC)
   - The Bookmarks menu is displayed.



2. Tick "Include Bonjour" for "Bookmarks bar".

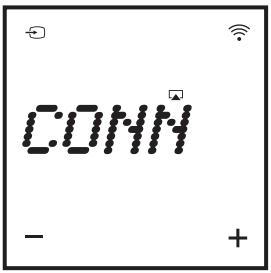


3. Select "LG AUDIO XXXXXX" from the Bonjour pull-down list shown at the bookmarks bar.
   - This unit configuration web page is displayed.



Connect Your Unit (ND8520) to the Available Wi-Fi Network

1. Select your network name (SSID) from "Wireless Network".
2. Enter the network key if required.
3. Tap or click "OK" to proceed with network settings change.
   - Follow the on-screen instructions to change and confirm the internal Wi-Fi settings of this unit.
   - Please wait about 30 seconds and more.
4. If this unit is connected to your selected home Wi-Fi network successfully,
   - AirPlay icon stops blinking and stays.
   - "CONN" message appears for a moment and then "AIR" message appears on the control panel.





Note

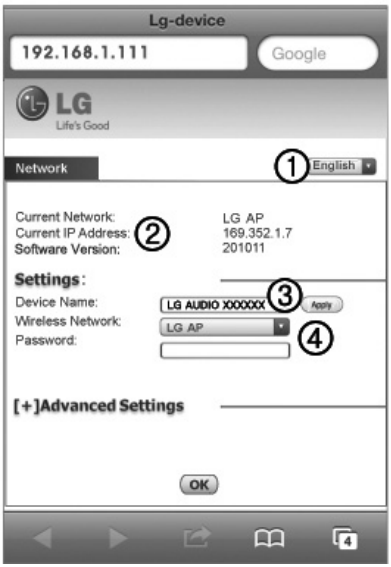
If there's any problem during network connection, if this unit is failed to connect to the Wi-Fi network, or if you enter the wrong password, AirPlay icon blinks green and "ERROR" message appears for a moment and then "AIR" message appears on the control panel of this unit. In these cases, try the network connection from "Switch this unit to Assisted Wi-Fi Setup mode" again.

Note

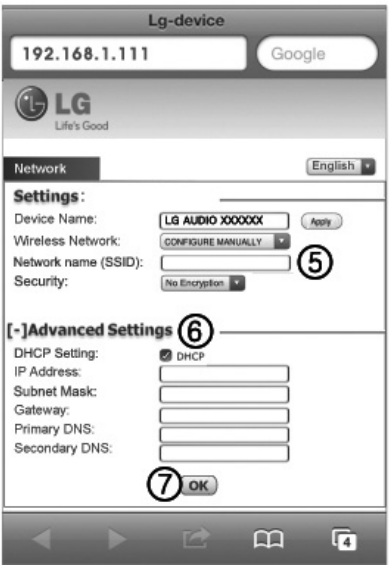
Change the Internal Wi-Fi Settings of This Unit

On this unit configuration web page, you can change the internal Wi-Fi settings of this unit for connection of this unit to your existing home Wi-Fi network.

Make sure that the settings on the configuration web page match your home Wi-Fi network settings that you wrote on paper.



① Select a language for the configuration web page.
② Current Network : Display the current connected network name (SSID).
Current IP Address : Display the current connected IP address.
Software Version : Display the current software version of this unit.
③ Device Name : If you like, you can keep the default device name or modify the device name by modifying the text in the text box. Tap or click "Apply" to proceed with device name change.
④ Wireless Network : Select your wireless network and enter your network password if applicable.



⑤ If you want to enter the network name (SSID) manually (for example, if you want to hide your SSID), select "CONFIGURE MANUALLY" of "Wireless Network".
⑥ If you want to set the advanced manual settings, tap or click "[+] Advanced Settings".
⑦ Tap or click "OK" to proceed with network settings change.

Restore Your Wi-Fi Enabled Device Back to Your Existing Home Wi-Fi Setting

Note

- "LG AUDIO Setup XXXXXX" is the temporary and assistant Wi-Fi network for connection of this unit to your home Wi-Fi router.
- Your iTunes host device should be connected to the same local network as this unit through the Wi-Fi router.
- Make sure that the settings at steps 2 to 3 below match your home Wi-Fi network settings you wrote on paper.

1. Select "Settings" -> "Wi-Fi" on your iPod touch/ iPhone/iPad.
   - Or open the list of available Wi-Fi networks on your PC/Mac.



2. Select your network name (SSID) from the list of available wireless networks.



3. Enter the network key if required.
4. Wait until successful Wi-Fi connection to your home Wi-Fi network.

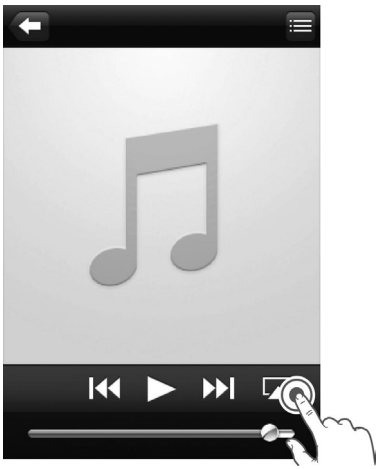
Stream Audio From Your iTunes Music Library to This Unit

Note

Make sure that your iTunes host device is connected to the same Wi-Fi network as this unit. Your iTunes device can be an iPod touch/ iPhone/iPad installed with iOS 4.3.3 (or later) or a Wi-Fi enabled PC/Mac installed with iTunes 10.2.2 (or later).

Stream From Your iPod touch/iPhone/iPad

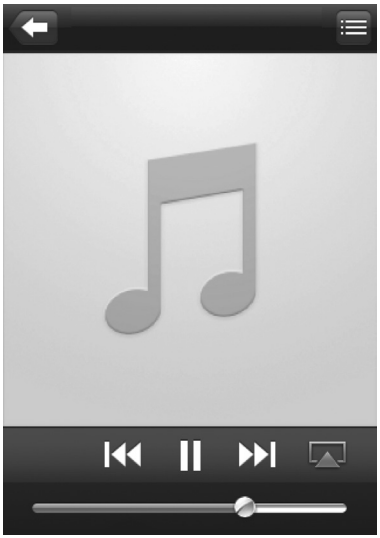
1. Launch the "Music" application on your iPod touch/iPhone/iPad.
2. Tap on the AirPlay icon.



3. Select "LG AUDIO XXXXXX" (or user customized name) from the AirPlay list.



4. Select a media file and start play.
   - After a while, you will hear music from this unit.
   - Depending on your connection environment and network condition, audio output may be delayed.



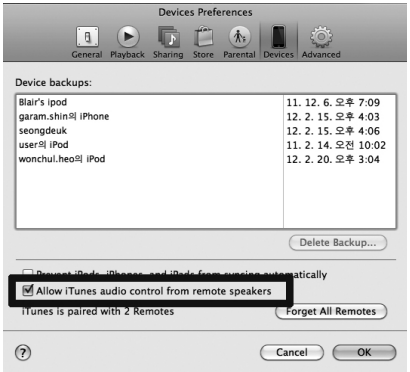
Note

If you fail to hear music after successful setup, do one of the following on your iPod touch/iPhone/iPad:

- Disconnect and then re-connect to the same Wi-Fi router again.
- Close all applications running at the background.
- Power off and then power on your iPod touch/iPhone/iPad again.

Stream From Your PC/Mac

1. Launch iTunes 10.2.2 (or a later version) on your PC/Mac.
2. Click "iTunes" -> "Preferences". (Mac)
   Click "Edit" -> "Preferences". (PC)
   Tick "Allow iTunes audio control from remote speakers" for "Devices".



3. Click the AirPlay icon on the window.



4. Select "LG AUDIO XXXXXX" (or user customized name) from the AirPlay list.



5. Select a media file and start play.
   - After a while, you will hear music from this unit.
   - Depending on your connection environment and network condition, audio output may be delayed.

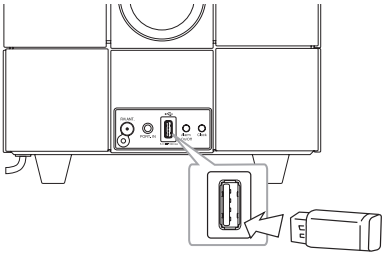


Note

- When you stream audio from your iTunes music library on a PC/Mac, you can select more than one AirPlay-enabled devices (if available) at step 3 to stream music to all of them at the same time.
- If you are using an earlier version of iTunes, the AirPlay icon may be instead of .

USB Operation

1. Connect the USB device to the USB port.
2. Select the USB function by pressing **FUNCTION** or .



Note

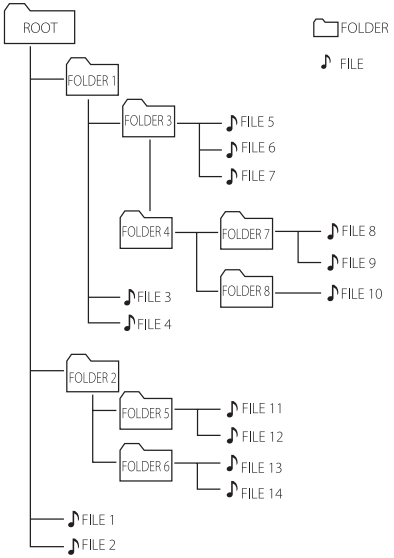
Removing the USB Device from the unit.

1. Choose a different function/mode.
2. Remove the USB device from the unit.

To	Do this
Play	Press >/II
Pause	During playback, press >/II
Skip	During playback, press ≪ / ≫ to go to the next file or to return to the beginning of the current file. During playback, press ≪ twice briefly to step back to the previous file.
Search	Press and hold ≪ / ≫ during playback and release it at the point you want to listen to.

Note

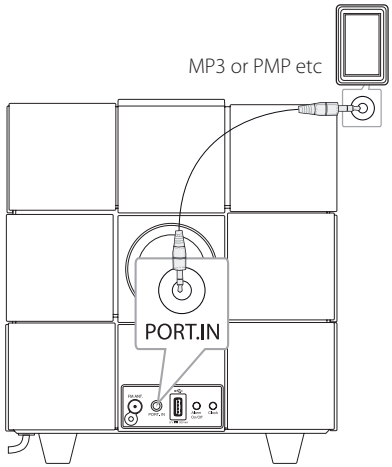
- During playback, if you change to another function, then return to the USB function, and then press >/II, you can listen to music from last point you played.
- USB Folders/Files are recognized as below.



- If there is no file in a folder, the folder will not appear.
- Folders will be presented as the following order;
  ROOT → FOLDER 1 → FOLDER 3 → FOLDER 7 → FOLDER 8 → FOLDER 5 → FOLDER 6
- File will be played from ♪ file No.1 to ♪ file No.14 one by one.
- Files and folders will be presented in order recorded and may be presented differently according to the record circumstances.
- *ROOT : The first screen you can see when a computer recognize the USB is "ROOT".

Listening to Music from Your External Device

The unit can be used to play the music from many types of external device. (Portable cable is not supplied as an accessory with this unit.)

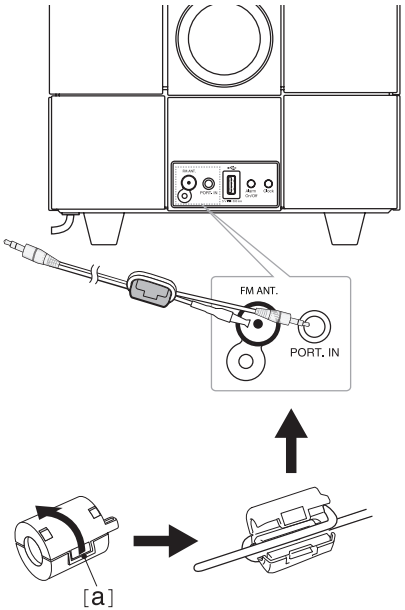


1. Connect the external device to the **PORT.IN** connector of the unit.
2. Turn the power on by pressing ⏻.
3. Select the PORT (PORTABLE) function by pressing **FUNCTION** or .
4. Turn the external device on and start playing it.

How to Affix the Ferrite Core

You must affix a small core (supplied with the model you purchased) in order to reduce or eliminate electrical interference.

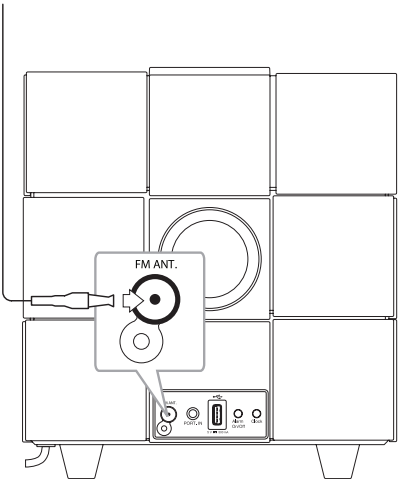
1. Pull the stopper [a] of the ferrite core to open.
2. Wind the portable cable and FM antenna around the ferrite core once.
3. Close the ferrite core until it clicks.



Radio Operations

Antenna Connection

Connect the FM wire antenna to FM antenna connector.



Listening to the Radio

1. Press **FUNCTION** or repeatedly until FM appears in the control panel. The last received station is tuned in.
2. Auto tuning : Press ≪ / ≫ for about 2 seconds until the frequency indication starts changing, then release. Scanning stops when the unit tunes in a station.

   Manual tuning : Press ≪ / ≫ repeatedly.
3. Adjust the volume by pressing **-/+** (Volume).

Presetting the Radio Stations

You can store up to 10 FM preset stations.

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

1. Press **FUNCTION** or repeatedly until FM appears in the control panel.
2. Select the desired frequency by using ≪ / ≫.
3. Press **MEMORY**. A preset number will blink in the control panel.
4. Press **FOLDER/PRESET** ∧/∨ to select the preset number you want.
5. Press **MEMORY**. The station is stored.
6. Repeat the steps 2 to 5 to store other stations.

Press **FOLDER/PRESET** ∧/∨ to select a preset station.

Deleting All the Saved Stations

Press and hold **MEMORY** for two seconds. "CLR" will flash up. Press **MEMORY** again. Then all the saved stations are deleted.

Note

- If all stations have already been preset, "FULL" will appear in the control panel for a moment and then a preset number will blink.
- Although all stations were preset, you can preset a station by overwriting the previous station.
- You can not delete the preset stations one by one.

Improving Poor FM Reception

Press >/II. This will change the tuner from stereo to mono and usually improve the reception.

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.

Bluetooth Profiles

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

A2DP (Advanced Audio Distribution Profile)

Listening to Music of a Bluetooth Device

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 **FUNCTION** or .
   Appears "BT" and "BT READY" in the control panel.
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 ND8520".
3. Enter the PIN code.
   PIN code : 0000
4. When this unit successfully is connected with your Bluetooth device, Bluetooth LED of this unit lights up and "PAIR" appears in the control panel.

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

- 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.
- When not connected the Bluetooth, "BT" and "BT READY" appears on the control panel.
- 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.
- If the Bluetooth device is disconnected, you should connect the Bluetooth device to your unit.

Using Bluetooth App

About "LG Bluetooth Remote" App

"LG Bluetooth Remote" app brings a suite of new features to this unit.
To enjoy more features, you are recommended to download and install free "LG Bluetooth Remote" app.

Install "LG Bluetooth Remote" App onto Your Bluetooth Device

1. Install "LG Bluetooth Remote" app through QR code. Use the scanning software to scan the QR code.



(Android OS) (Apple iOS)

2. Tap an icon for installation.
3. Tap an icon for downloading.

Note

- Make sure that your Bluetooth device is connected to the Internet.
- Make sure that your Bluetooth device has a scanning software application. If you don't have one, download one from "Apple App Store" or "Google Android Market (Google Play Store)".

Install "LG Bluetooth Remote" App by Docking Your iPod touch/iPhone/iPad onto This Unit

1. Connect your iPod touch/iPhone/iPad to iPod/iPhone/iPad Dock. The display for downloading "LG Bluetooth Remote" will be linked automatically (Apple iOS only).
2. Tap an icon for installation.
3. Tap an icon for downloading.

Install "LG Bluetooth Remote" App through "Apple App Store" or "Google Android Market (Google Play Store)"

1. Tap the "Apple App Store" icon or "Google Android Market (Google Play Store)" icon.
2. In the search bar, type in the "LG Bluetooth Remote" and search it.
3. In the search result list, find and tap "LG Bluetooth Remote" to start downloading Bluetooth app.
4. Tap an icon for installation.
5. Tap an icon for downloading.

Note

- Make sure that your Bluetooth device is connected to the Internet.
- Make sure that your Bluetooth device is equipped with "Apple App Store" or "Google Android Market (Google Play Store)".

Activate Bluetooth with "LG Bluetooth Remote" App

"LG Bluetooth Remote" app helps to connect your bluetooth device to this unit.

1. Tap "LG Bluetooth Remote" app icon on the home screen to open "LG Bluetooth Remote" app, and go to the main menu.
2. Tap [Setting] and select the unit you want.
3. If you want to get more information to operate, tap [Setting] and [Help].

Note

- If you place your iPod touch/iPhone/iPad into the dock of this unit while your iPod touch/iPhone/iPad is connected to this unit by Bluetooth connection, the Bluetooth connection is deactivated.
- If this unit is BT mode and you connect your iPod touch/iPhone/iPad to this unit after connecting your iPod touch/iPhone/iPad to this unit by Bluetooth connection, the function is automatically switched to IPOD mode. Then if you disconnect your iPod touch/iPhone/iPad from this unit, it is automatically connected to this unit by Bluetooth connection.
- The Bluetooth connection of iPod touch/iPhone/iPad is not activated while iPod/iPhone/iPad is placed into the dock of this unit.
- This unit does not support the multi-pairing. If this unit is already connected with other Bluetooth device, disconnect that device and then try again.
- If you use "LG Bluetooth Remote" app for operation, there would be some differences between "LG Bluetooth Remote" app and the supplied remote control. Use the supplied remote control as necessary.
- Depending on the Bluetooth device, "LG Bluetooth Remote" app may not work.
- "LG Bluetooth Remote" app for Apple iOS is slightly different from that of Android OS.
- The connection you've made may be disconnected if you select other application or change the setting of the connected device via "LG Bluetooth Remote" app. In such a case, please check the connection status.

Other Operations

Using Your Unit as an Alarm Clock

1. Make sure that you have set the clock correctly. (See "Setting the Clock" on page 11.)
2. Press and hold **Alarm On/Off** on the back panel.
3. The alarm sound sources blink. (FM (Tuner)/ USB/IPOD). While each of sound sources blinks, select the one you want by pressing ⏯. If you select FM (Tuner) mode, you can select the station you preset by pressing ⏮ / ⏭ and then press ⏯ to save.
4. "ON (Time)" setting is displayed. The hour setting blinks. Press ⏮ / ⏭ to select the hour and then press ⏯ to save.
5. The minute setting blinks. Press ⏮ / ⏭ to select the minute and then press ⏯ to save.
6. The volume setting blinks. Press ⏮ / ⏭ to change the volume and then press ⏯ to save.

Note

- Alarm function only works when this unit is turned off.
- You can check the setting status by pressing **Alarm On/Off** on the back panel two times.
- If you want to reset the alarm, repeat steps 2-6.

Activate and Deactivate the Alarm Timer

Press **Alarm On/Off** repeatedly on the back panel to activate or deactivate the timer.

- If the timer is activated, "🔔" is displayed.
- If the timer is deactivated, "🔔" is not displayed.

Stop Alarm Ring

- When the alarm rings, press **Alarm On/Off** on the back panel or press ⏻.
- The alarm stops but the alarm settings remain.

Note

- If you don't set clock on your iPod/iPhone/ iPad, the unit will not be synchronized for the clock with your iPod/iPhone/iPad.
- If you unplug the cord from an outlet, the alarm setting you set is not stored.
- After setting a clock function, you can set alarm function.
- If you do not press any button for 30 minutes after the alarm goes off, the alarm will shut off automatically.
- If you set the clock and alarm, you can check the time and alarm icon "🔔" by pressing **Alarm On/Off** although the unit is standby mode.
- If the time you set is up, the unit will be turned on automatically.

Snoozing

The snoozing function wakes you up every 10 minutes if you tap anywhere on the control panel while the alarm activates.

"ZZZ" appears and "🔔" blinks. To cancel the snoozing function, press **Alarm On/Off** or ⏻.

Resume Playback

The unit memorizes the point where you pressed ⏯. Press ⏯ to resume playback.

Playing Repeatedly or Randomly (USB only)

Press ⟲ repeatedly. Then the current file will be played back repeatedly or randomly. (ONE/DIR/ALL/RAND(RANDOM)/OFF)

Dimmer

Press **SLEEP** once. The control panel will be darkened by half. To cancel it, press **SLEEP** repeatedly until the control panel get bright.

Sleep Timer Setting

While listening to music or radio, press **SLEEP** repeatedly to select delay time between 10 and 180 minutes. After delay time, the unit will turn off. (You can see the following order, 180 -> 150 -> 120 -> 90 -> 80 -> 70 -> 60 -> 50 -> 40 -> 30 -> 20 -> 10)
To cancel the sleep function, press **SLEEP** repeatedly until the control panel get bright.

Note

- You can check the remaining time before the unit turns off by pressing **SLEEP**.
- Sleep function will work after dimmer function.

Setting the Sound Mode

This system has a number of pre-set 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.

On Display	Description
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.
BYPASS	You can enjoy the sound without equalizer effect.

Note

Maybe you need to reset the sound mode, after switching the input, sometimes even after the sound file is changed.

Turning off the Sound Temporarily

Press 🔇 to mute the sound. You can mute the sound in order, for example, to answer the telephone. And "MUTE" will appear in the control panel. To cancel mute function, press 🔇 again or adjust volume level by pressing **+/-** (Volume).

Troubleshooting

Problem	Cause & Correction
No Power.	• Plug in the power cord. • Check the condition by operating other electronic devices.
No sound.	• Press **FUNCTION** or and check the selected function. • Adjust the volume. • Check that the sound of the unit is muted.
Radio stations cannot be tuned in properly.	• Adjust its position. • Tune to the station manually. • Preset some radio stations, see page 25 for details.
iPod/iPhone/iPad does not work.	Connect iPod/iPhone/iPad to the unit correctly.
Clock does not displayed.	• Power has been interrupted or the power plug has been disconnected. • Reset the clock (see page 11).
The control panel is not bright.	Check that the dimmer function is activated.
The remote control does not work properly.	There is an obstacle in the path of the remote control and the unit.

Trademarks and Licenses



"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, 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. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.



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.



The Wi-Fi CERTIFIED Logo is a certification mark of the Wi-Fi Alliance.

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.

Specifications

General	
Power requirements	Refer to main label on the rear panel.
Power consumption	Refer to main label on the rear panel.
Dimensions (W x H x D)	(245 X 245 X 245) mm
Net Weight (Approx.)	6 kg
Operating temperature	5 °C to 35 °C (41 °F to 95 °F)
Operating humidity	5 % to 90 %
USB	5 V ⎓ 500 mA
iPod/iPhone/iPad	5 V ⎓ 2.1 A

Inputs	
PORT. IN	0.5 Vrms (3.5 mm stereo jack)

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

Amplifier	
Output Power	20 W X 2 ch + 40 W (8 Ω + 4 Ω at 1 kHz)
T.H.D	10 %

Speakers	
Type	built-in
Impedance Rated	8 Ω + 4 Ω
Rated Input Power	20 W + 40 W
Max Input Power	40 W + 80 W

Wireless	
Wireless LAN	802.11 b/g

- Design and specifications are subject to change without notice.



LG Customer Information Center
1-888-542-2623 CANADA
Register your product Online!
www.lg.com