

OWNER'S MANUAL

HIGH POWER SPEAKER SYSTEM

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

MODEL

RM1

Safety Information





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



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



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

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

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

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

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

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

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 should 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.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.
 FCC Radiation Exposure Statement (for

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION concerning the Power Cord

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

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

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your device, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the device, and have the cord replaced with an exact replacement part by an authorized service center. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the device.

Symbols

~	Refers to alternating current (AC).
==	Refers to direct current (DC).
	Refers to class II equipment.
O	Refers to stand-by.
I	Refers to "ON" (power).
4	Refers to dangerous voltage.

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Unique Features

Bluetooth®

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

Playable file Requirement

Music file requirement

MP3 file compatibility with this unit is limited as follows.

• Sampling frequency: within 32 to 44.1 kHz

• Bit rate: within 32 to 320 kbps

Maximum files: 999Maximum folders: 999File extension: "mp3"

- Certain MP3 files may not be played depending on the type or format of the file.
- The DTS is not supported. In case of DTS audio format, audio is not output.

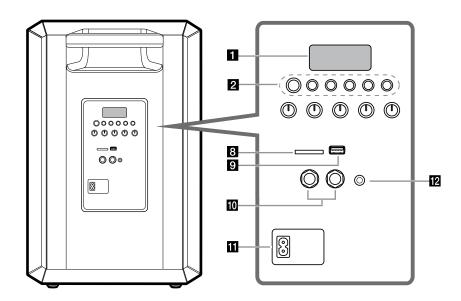
Compatible USB Devices / SD cards

- MP3 Player: Flash type MP3 player.
- USB Flash Drive : Devices that support USB2.0 or USB1.1.
- SD card: SD, SDHC, SDXC
- The USB / SD function of this unit does not support all USB devices and SD cards.

USB device / SD card requirement

- Devices which require additional program installation when you have connected it to a computer, are not supported.
- Do not extract the USB device / SD card while in operation.
- For a large capacity USB or SD card, it may take longer than a few minute to be searched.
- To prevent data loss, back up all data.
- If you use a USB extension cable or USB hub, the USB device is not recognized.
- Using NTFS file system is not supported. (FAT(16 / 32) and ExFAT file systems are supported.)
- This unit recognizes up to 999 files.
- External HDD, Card readers, Locked devices, or hard type USB devices are not supported.
- USB port of the unit cannot be connected to PC. The unit cannot be used as a storage device.
- Some USB / SD cards may not work with this unit.

Rear panel



- 1 Display window
- 2 ((Standby)

Turns the power on or off.

F (Function)

Selects the function and input source.

Input source / Function	Display
USB	USb
SD card	Sd
LINE input	LInE
Bluetooth	bt

- KM/DDI (Skip/Search)
 Skips backward or forward.
 Searches for a section within a file.

I (Play/Pause)

Starts or pauses playback.

Listens to your files repeatedly.

3 MASTER VOLUME

Adjusts speaker volume.

4 BASS

Adjusts BASS sound level when setting USER EQ.

5 TREBLE

Adjusts TREBLE sound level when setting USER EQ.

- 6 MIC (Microphone) ECHO Adjusts echo volume.
- **7 MIC** (Microphone) **VOLUME** Adjusts microphone volume.
- 8 SD card slot You can play sound files by connecting the SD card.
- 9 USB Port You can play sound by connecting the USB device.
- 10 MIC (Microphone) 1/2 Jack
- 11 AC IN socket



Fully charge the device before using.

12 LINE IN

Charging Battery

This unit has a built-in battery.

- By connecting AC power, battery will start charging.
- For efficient performance of battery, it is recommended fully charging the device.
- Charge battery for about 4 hours before you start using this unit for the first time.



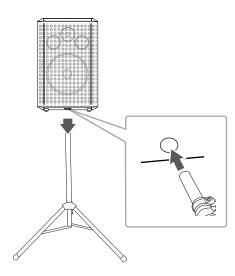
- Operating time is approx. 4 hours. (Based on fully charging the battery and continuous playback using 50 % volume level.) It may vary depending on the battery status and operational conditions.
- If you are listening to the music while charging, it will take longer to charge.
- Charge the battery fully during the recommended time after discharge.

Use of Tripod

You can mount the unit on a tripod. The tripod is an optional purchase.

(!) Caution

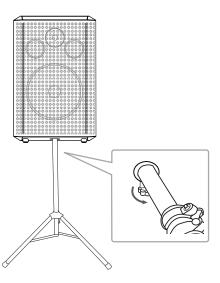
- Extend the tripod legs as much as possible and tighten up the screw securely.
- Before connecting with the unit, you must set up the tripod completely to prevent shaking.
- 1. Unfold the tripod on a flat surface. And then fix the tripod. Tighten up the tightening part of the tripod.
- 2. Lift the speaker and connect the tripod to fixing part on the bottom of the speaker.



(!) Caution

Tighten up the Hand screw on the bottom of the unit while the other is holding the speaker and tripod.

3. Tighten up the Hand screw on the bottom of the



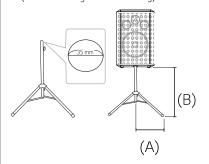


Insert the safety pin when setting up the tripod stand.



Note

- · If you use a tripod, use the tripod only for speaker.
- Before buying a tripod, check the specifications for maximum bearing load of the center column. (Unit's net weight: about 4.3 kg)



- Use tripod as below: (A) From tripod's center to tripod's leg: above 600 mm. (B) From top of tripod to bottom of tripod: below 900 mm. (C) Tripod net weight: over 3.9 kg
- For safe use set the tripod as low as possible.
- You should pull the center column to the maximum only in case of need.
- · Mount only one unit on each tripod.
- Do not try to extent the tripod legs beyond it's allowed range.
- Make sure the tripod is correctly assembled and all its components are tightly connected.
- Do not try to assemble the tripod if parts are missing or defective.
- After installation, make sure the unit is set up firmly on the tripod.
- Do not place the unit on anything unstable where it might accidentally fall over.
- Add weight such as sand bags around the tripod legs to prevent the tripod from falling over.

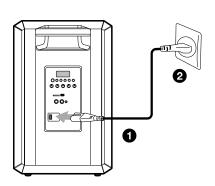


Note

- You should limit people around the unit while its on a tripod. Otherwise it may result in an accident and may cause personal injury or property damage.
- Standing on the stool to reach unit's control panel is risky and might lead to injuries.
- Do not put or attach other objects on the
- Do not shake or push the unit when the tripod is installed.
- Refrain from moving around the tripod after
- Remove all connected cables to the unit on the tripod before moving the tripod or adjusting its height.
- When transporting or moving the unit, always use two or more people.
- When you use the tripod, use an extension cord. Always be careful with the movement of the cable.
- It is prohibited to use this unit outside. (Indoor use only)
- Do not expose the unit to excessive dust, vibrations, extreme cold or heat (such as in direct sunlight or near a heater) to prevent the possible disfigurement of the panel or damage to the internal components.
- When using the external input cable (Mic, etc.) after installing the unit on the tripod, external input cable can cause the unit to
- Watch out because people can trip over the input cable (Mic, etc.) connected the unit.
- Always be careful not to trip over the unit.

AC Power Cord Connection

- 1. Connect one end of the AC power cord (included) to the **AC IN** socket.
- 2 Plug the other end into the wall outlet.



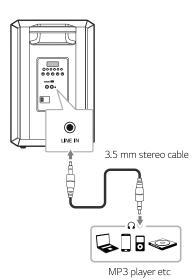
Note -

- If the battery level is very low, this unit does not turn on.
- When the battery level is low, this unit displays 'LbAt' (Low Battery) frequently. And if the battery level becomes even lower, this unit turns off after displaying 'LbAt' (Low Battery).
- Previous setting may not be saved when you turn off the unit.
- Previous setting may not be saved when the unit's power is shut off due to low battery.
- Unplug the AC power cord from the wall outlet if you do not to use for an extended period of time.

Optional Equipment Connection

LINE IN Connection

Connect an output (earphone or line out) of portable device (MP3 or PMP etc) to the **LINE IN** (3.5 mm) connector.



Listening to music from your portable player

The unit can be used to play the music from many types of portable player.

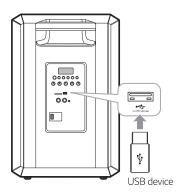
- 1. Connect the portable player to the **LINE IN** connector of the unit.
- 2. Turn the power on by pressing 🖒.
- 3. Press **F** to select LINE function.
- 4. Turn on the portable player and start it playing.



Automatically switches to the LINE function when you connect the portable device to the LINE IN connector.

USB Connection

Connect a USB device (or MP3 player, etc.) to the USB ports on the unit.



Note

Removing the USB device from the unit:

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

SD card Connection

Connect a SD card to the SD slot on the unit.



Note _

Removing the SD card from the unit:

- 1. Choose a different function.
- 2. Remove the SD card from the unit.

Basic Operations

USB/SD Operations

Connect the USB device to the USB port. Or connect the SD card to the SD slot. When you connect the USB device or SD card, the player plays an audio file contained in the USB / SD storage device automatically.

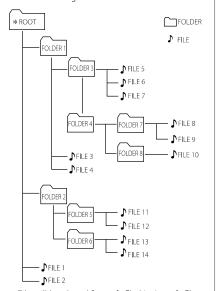
То	Do this	
Playback	Press NI.	
Pause	Press 🔰 during playback.	
Skipping to the next/ previous file	Press N to go to the next file. Playing less than 3 seconds, Press N to go to the previous file. Playing after 4 seconds, press N to go to the beginning of the file.	
Playing	Press REPEAT repeatedly.	
repeatedly	IONE <-> ALL	

Note

- Do not extract the USB device or SD card during operation. (play, etc.)
- Regular back up is recommended to prevent data loss.
- If the USB device and SD card is connected to the unit at the same time, use the unit by changing a function.

Note .

• Files are recognized as below.



- File will be played from ${\rm 1\!\!\!\!\!D}$ file No.1 to ${\rm 1\!\!\!\!\!\!\!D}$ file No.14 one by one.
- Files 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 / SD card are "ROOT"

Using BLUETOOTH® wireless technology

About Bluetooth

Bluetooth is wireless communication technology for short range connection.

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

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

• Available Devices: Smart phone, MP3, Notebook,

 Version: 4.2 • Codec: SBC

Bluetooth Profiles

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

A2DP (Advanced Audio Distribution Profile)

Listening to music stored on the **Bluetooth devices**

Pairing your unit and Bluetooth device

Before you start the pairing procedure, make sure the Bluetooth feature is activated on 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 **F**. Appears "BT" and **Bluetooth** icon blink quickly in the 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 ${\bf Bluetooth}$ device. Your unit appears as "LG-RM1(XX)".



- XX means the last two digits of Bluetooth address. For example, if your unit has a **Bluetooth** address such as 9C:02:98:4A:F7:08, you will see "LG-RM1(08)" on your Bluetooth device.
- Depending on the **Bluetooth** device type, some devices have a different pairing way. For details about **Bluetooth** pairing, refer to your Bluetooth device manual.
- 3. When this unit is successfully connected with your **Bluetooth** device, "CONNECTED" appears on the display window. Then "BT" will appear on the display window.
- 4. Listen to music. To play a music stored on your Bluetooth device, refer to your **Bluetooth** device's user guide.



Note

- When using **Bluetooth** technology, you have to make a connection between the unit and the **Bluetooth** device as close as possible and keep the distance
 - However, it may not work well in certain situations as described below:
 - There is a obstacle between the unit and the Bluetooth device.
 - There is a device using same frequency with **Bluetooth** technology such as a medical equipment, a microwave or a wireless LAN device.
- You should connect your **Bluetooth** device to this unit again when you restart it.
- If Bluetooth connection does not work well, try pairing it again.
- To connect a new Bluetooth device, disconnect the currently connected Bluetooth device and connect a new Bluetooth device.



Note -

- The sound may be interrupted when the connection has interference from other electronic devices.
- You may not control the **Bluetooth** device with this unit.
- 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.
- The more distance between the unit and the Bluetooth device, the lower the sound quality
- Bluetooth connection will be disconnected when the unit is turned off or the **Bluetooth** device gets too far from the unit.
- When **Bluetooth** connection is disconnected, connect the **Bluetooth** device to the unit
- When you use the BT(Bluetooth) function, adjust the volume to a proper level on the Bluetooth device.
- If you change the function, the BT(**Bluetooth**) function is disconnected.
- When entering BT(Bluetooth) function, this unit automatically connect to **Bluetooth** device which is connected the last.(Auto connection may not be supported depending on the connected device specifications.)

Controls connected Bluetooth device

You can control connected **Bluetooth** device by the unit; play, pause, skip.



Note

- Only Android OS and iOS is available to use this function.
- This function may not be supported depending on the Bluetooth device, or operated differently.

Other Operations

Using Microphone

- 1. Connect your microphone to the MIC jack.
- 2. Play the music you want.
- 3. Sing along with the accompaniment. Adjust the microphone volume by rotating MIC VOLUME clockwise or counterclockwise.



Note

- When not using the microphone, set the MIC volume to minimum or turn off the MIC and remove the microphone from the MIC
- If the microphone is set too near the speaker, a howling sound may be produced. In this case, move the microphone away from the speaker or decrease the sound level by using the MIC VOLUME.
- If sound through the microphone is extremely loud, it may be distorted. In this case, rotate MIC VOLUME to minimum.
- You can't adjust microphone's volume by using the MASTER VOLUME. Microphone's volume can be adjusted by MIC VOLUME.

Adjusting the ECHO volume

You can give an echo effect to the sound from the microphones.

Rotate the MIC ECHO to increase the echo volume or decrease it.

Setting the USER EQ

You can adjust the sound level of Bass and Treble as your preference.

Rotate **BASS** or **TREBLE** to adjust the sound level.

Auto power down

This unit will turn itself off to save electricity in the case were the main unit is not connected to an external device and is not used for 15 minutes. The unit will also turns itself off after six hours if the main unit has been connected to another device using the analog inputs.

How to disconnect the wireless network connection or the wireless device.

Turn off the unit by pressing the power button for more than 5 seconds.

Troubleshooting

General

Problem	Cause & Solution
The unit does not work properly.	Turn off the power of this unit and the connected external device (TV, Woofer, DVD-player, Amplifier, etc.) and turn them on again. Disconnect the power cord of this unit and the connected external device (TV, Woofer, DVD-player, Amplifier, etc.) and then try connecting again. Previous setting may not be saved when device power is shut off.
No Power.	The battery is discharged. Recharge the battery The power cord is not plugged in. Plug in the power cord. Check whether electricity failed. Check the condition by operating other electronic devices using the same AC outlet.
No sound.	Check whether you select right function. Press function button and check if you have selected the right function.

General specifications

General		
Power requirements	Refer to the main label on the unit.	
	Refer to the main label on the unit.	
Power consumption	Networked standby: 0.5 W (If all network ports are activated.)	
Dimensions (W x H x D)	Approx. 255 mm X 380 mm X 250 mm	
Operating temperature	5 °C to 35 °C	
Operating humidity	5 % to 60 % RH	

Inputs	
Portable in (LINE IN)	0.4 Vrms (3.5 mm stereo jack) x 1
Microphone (MIC 1/2)	Sensitivity 20 mV (1 kHz), 6.3 mm jack x 2

System	
Frequency Response	80 to 20,000 Hz
Signal-to-noise ratio	More than 70 dB
Dynamic range	More than 75 dB
Bus Power Supply (USB)	5 V === 500 mA

Amplifier (RMS Output power)	
Total output	25 W RMS (4 Ω at 1 KHz, 10 % THD)

Battery	
Battery type	7.2V /2600mAh (Built-in rechargeable battery)
Operating time	Approx. 4 hours (Based on fully charging the battery and continuous playback using 50 % volume level.) It may vary depending on the battery status and operational conditions.
Charging time	Approx. 4 hours It may vary depending on the battery status and operational conditions.

• Design and specifications are subject to change without notice.

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

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



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