OWNER'S MANUAL

LG TONE Free

Bluetooth® LG Stereo Headset

For user safety and convenience, please read the user manual before using the product.

Model

TONE-T90S

www.lg.com

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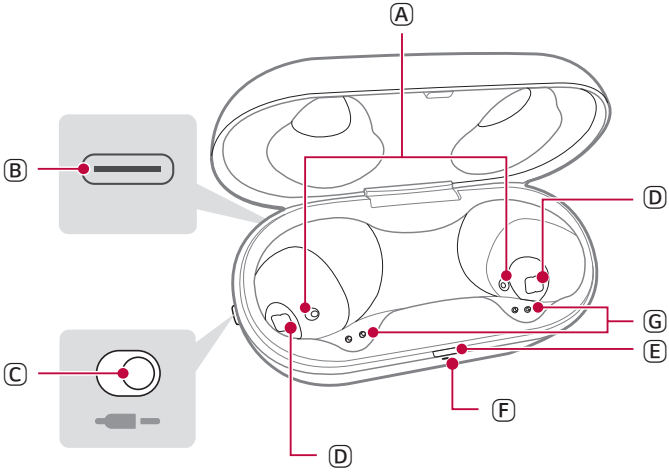
Exploring the Product

Charging Case



Ⓐ Mood light: When you open the charging case, the mood light turns on and off.

Ⓑ Case charging port: You can charge a device or use Plug and Wireless mode.

Ⓒ Plug and Wireless mode switch: You can connect analog and USB audio devices and the charging case to listen to the sound through the earbuds.

- How to operate the Plug and Wireless mode switch

Push to the right (Green)	Plug and Wireless mode on
Push to the left	Plug and Wireless mode off

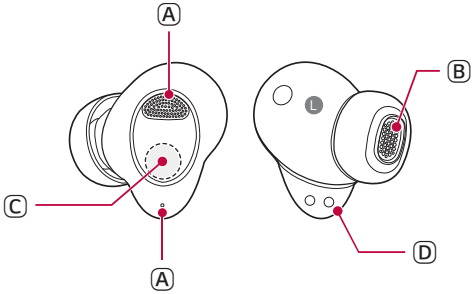
Ⓓ UVnano LED: If you charge the device with the earbuds attached and the cover closed, the UVnano LED operates for 10 minutes.

Ⓔ Battery status indicator (up): You can check the battery status of the earbuds or charging case.

Ⓕ UVnano indicator (down): The UVnano indicator is blue while the UVnano LED is operating.

Ⓖ Earbuds charging terminals: You can charge the earbuds by attaching them to the charging case.

Earbuds



Ⓐ Microphone
Ⓑ Speaker mesh (microphone)
Ⓒ Touch pad
Ⓓ Earbuds charging terminals

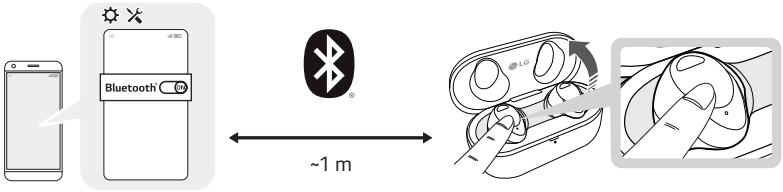
Note

- Be careful that foreign substances are not over the Earbuds charging terminals.

Connecting with Bluetooth for Use

Connecting the Smartphone to Earbuds via Bluetooth

1. Turn on the Bluetooth® function of your smartphone or a device you want to connect.
2. Open the cover with earbuds attached to the charging case. The blue battery status indicator on the front blinks. If the blue battery status indicator does not blink, or if you want to connect a device other than the one already connected, touch and hold the touch pad of the left or right earbud for 3 - 5 seconds.



3. When the Fast Pair connection pop-up appears at the bottom of the smartphone screen, touch the pop-up to connect.
   - Only Android™ 6.0 or higher is supported, and Bluetooth® and location information settings of the mobile device are required.
4. If the connection pop-up does not show up, select and connect [TONE-T90S] in the Bluetooth® menu of the smartphone. (For users of iOS or Android 5.0 or lower)
   - If the earbuds model name is displayed abnormally on the Android device, please change the model name in the Bluetooth® menu of the settings of the connected device.

Note

- To connect with another device, perform the above procedures again.

Multiple Connections

If you use the LG TONE Free app, you can connect and use two devices, such as a smartphone and a PC at the same time.

1. Please activate Multi-Point & Multi-Pairing on the LG TONE Free app.
2. Put the earbuds in the charging case and perform the connecting procedures in the same way.
3. The existing connection device becomes the "main connection device" and the newly connected device becomes the "auxiliary connection device".
4. You can use the multi-connection function more conveniently in the detailed Multi-Point & Multi-Pairing settings.
5. Of the two devices, the sound of the device with which you played the content lastly is heard. (When the charging case is connected with a USB-C™ to AUX cable in Plug & Wireless mode, it changes to the external device sound connected to the charging case when the "main connection device" is not playing or talking.)

Note

- When the two devices are connected at the same time, the main function operates based on the "main connection device".
- In some media players, the sound may not switch automatically when content is played.

Automatic Reconnection

If you open the charging case of the earbuds, they are automatically connected to the last connected and used device. (If the device cannot be found, it changes to the connectable mode.)

If automatic reconnection is not done, search for earbuds on the device to be connected and connect them manually.

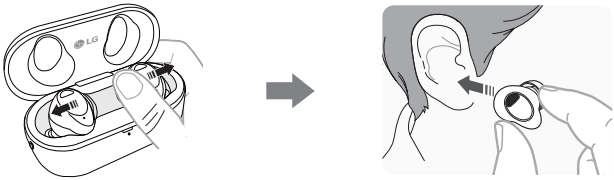
Listening to Sound with Earbuds

Wearing Earbuds

1 Remove the earbuds from the charging case by bending the inside of the earbuds outward, and then wear them to fit tightly into your ears.

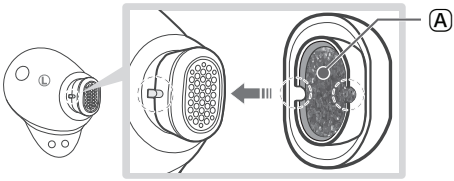
Note

- If you use an ear gel sized to fit your ears, you can improve performance of active noise cancellation (ANC). You can then listen to music with rich sound quality.



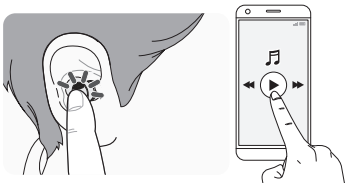
2 If you wear earbuds properly, you can hear a notification detection sound.

* To replace the ear gel, align the hole shape of the ear gel with the protrusion of the earbuds and fasten it. (Make sure the multi function foam is well inserted into the inner part of the ear gel.)



Ⓐ Multi-function foam

Listening to Music

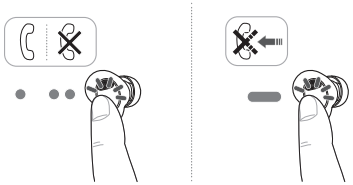


How to Use	Function
: **Touch once**	Play/Stop
: **Touch twice**	Volume Down (Touch the left) Volume Up (Touch the right)
: **Touch three times**	Play the next song

Note

- You can change how to use the listen to music in the touchpad settings of the LG TONE Free app.

Receiving Phone Call



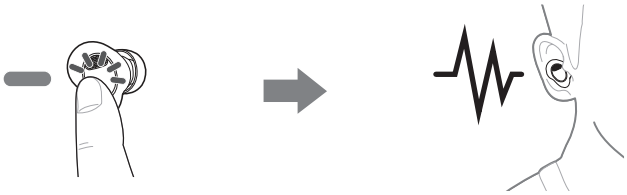
How to Use	Function
: **Touch once**	Answer Call
: **Touch twice**	End Call
: **Touch and hold**	Reject call

Note

- When you make a call from your smartphone, the call is automatically connected to the headset.
- If you touch the left or right earbud once, the current phone call is switched to the standby status and you can receive an incoming call during a call. If an existing call is on hold, you can end the current call on your smartphone. (This operates differently depending on the smartphone settings.)

Listening to Ambient Sound/Active Noise Cancellation (ANC)

Listening to ambient sound



When the listening to ambient sound function turned on allows you to control the amount of sound you can hear around you.

Active noise cancellation (ANC)

The active noise cancellation (ANC) function blocks external sounds during use. Therefore, use it when you do not want to be disturbed while listening to music or watching a video.

How to Use	Function
: **Touch and hold**	Change the functions between active noise cancellation (ANC) and listening to ambient sound.

- You can set listening to ambient sound or active noise cancellation (ANC) functions in the LG TONE Free app.
- You can set listening mode and conversation mode in the LG TONE Free app.
- When using listening to ambient sound function or active noise cancellation (ANC) function, the available time is shorter than while it is turned off.
- The listening to ambient sound or active noise cancellation (ANC) function operates when you are in standby/listening to music/during a call.
- The listening to ambient sound or active noise cancellation (ANC) function operates both earbuds must be worn for this to work.
  - ANC stands for active noise cancellation.

⚠ **Caution**

- When the ambient sound mode is executed, you may hear a loud ambient sound suddenly. Pay attention to safety when using active noise cancellation (ANC) outdoors.

Connecting to an External Device for Use (Plug and Wireless Mode)

Connecting

You can connect the charging case to an analog device such as audio in airplane seat, treadmill, TV or a USB audio device such as PC to listen to the sound with an earbuds.

Connecting with an analog device

How to Use	Function
: **Touch once**	Mute or unmute
: **Touch twice**	Volume Down (Touch the left) Volume Up (Touch the right)

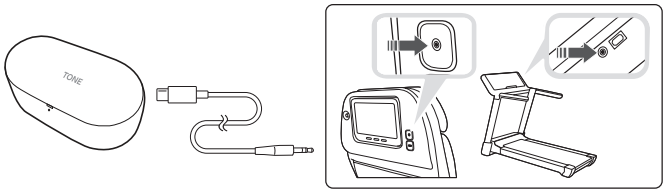
Connecting with a USB audio device

How to Use	Function
: **Touch once**	Play/Stop
: **Touch twice**	Volume Down (Touch the left) Volume Up (Touch the right)
: **Touch three times**	Play the next song

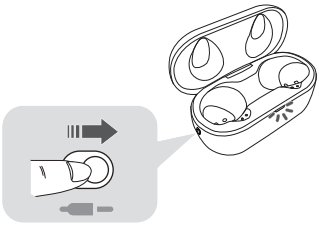
Connecting and Disconnecting with an Analog Device

Connecting with an analog device

1. Connect the USB-C™ port of the USB-C™ to AUX cable to the charging case.
2. Connect the AUX terminal to a desired device.

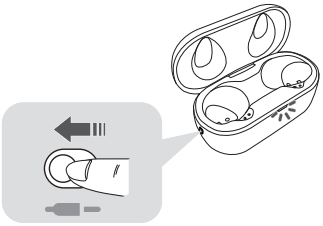


3. Wear earbuds on your ears.
4. Slide the Plug and Wireless mode switch to the right to turn on the mode.
5. The indicator on the charging case blinks green.
6. When the charging case and earbuds are connected, the indicator turns off.



Disconnecting with an analog device

1. Push the Plug and Wireless mode switch to the left.
2. The indicator on the charging case blinks blue.
3. When disconnected, it is reconnected with the device with which has been previously connected.
   - If you cannot find a device which has been previously connected, it enters the Connectable mode.



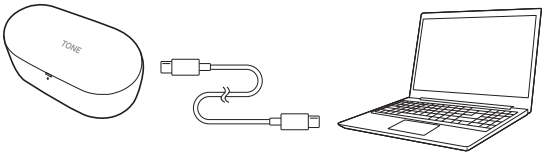
Note

- It does not support the call function.
- The USB-C™ to AUX cable does not support the charging function.
- The product may not be compatible with some devices, and certain airplane seats may require a conversion adapter (sold separately).
- If you use the product for a long time, the use time (including the charging case) may be shorter than when connecting and using a smartphone.

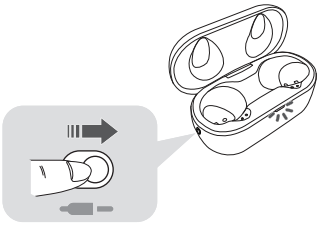
Connecting and Disconnecting with a USB Audio Device

Connecting with a USB audio device

1. Connect the USB-C terminal of the included USB Type-C™ Charging and Data cable to the charging case.
2. Connect the USB-C terminal to a desired device.

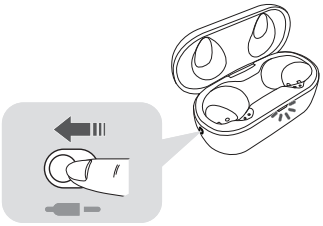


3. Wear earbuds on your ears.
4. Slide the Plug and Wireless mode switch to the right to turn on the mode.
5. The indicator on the charging case blinks green.
6. Once the charging case is connected to the earbuds, the green indicator turns off and the case charging status is displayed.



Disconnecting with a USB audio device

1. Push the Plug and Wireless mode switch to the left.
2. The indicator on the charging case blinks blue.
3. When disconnected, it is reconnected with the device with which has been previously connected.
   - If you cannot find a device which has been previously connected, it enters the Connectable mode.

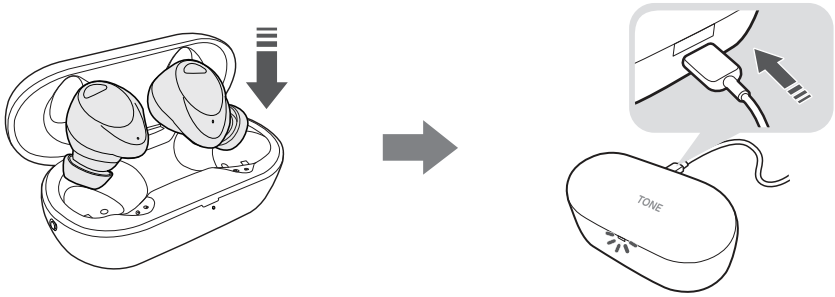


Note

- When connected with a USB audio, it supports the call function and is displayed as TONE-T90SC on the USB audio device.
- If you use the product for a long time, the use time (including the charging case) may be shorter than when connecting and using a smartphone.

Charging

Charging by Wire

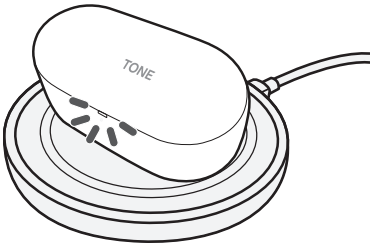


If you connect the USB Type-C™ Charging and Data cable the charging status shows up on the charging case.

Note

- The earbuds and charging case are charged at the same time.
- The Case charging port of the charging case does not support the power supply function to other devices such as smartphone.

Charging Wirelessly



Place the charging case on the center of the wireless charger.

Note

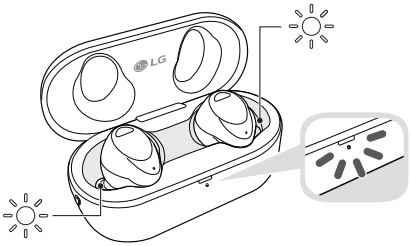
- A wireless charger is not provided.
- For some wireless chargers, the wireless charging function may not operate.
- For wireless charging, it takes a long to charge.
- If you charge the device with the earbuds attached and the cover closed, the UVnano LED operates for 10 minutes.

Description on UVnano

The charging case has a built-in UVnano LED to keep the earbuds clean.

If you charge the device with the earbuds attached and the cover closed, the UVnano LED operates for 10 minutes.

* UVnano is a compound word of UV and nanometer, the unit of UV.



Note

- The UVnano indicator is blue while the UVnano LED is in operation.
- The UVnano charging case removes up to 99.9% of harmful germs from ear gel.
- The white product may have a different colour on the UVnano LED contact part, but there is no problem with performance.

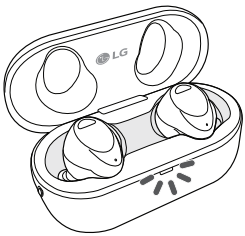
Caution

- Please note that the temperature of the earbuds may become higher while the UVnano LED is operating.

Checking Battery Status

If you open the charging case, the battery status of the earbuds is displayed.

When the earbuds are not attached, the battery status of the charging case is displayed.



Battery status indicator	Battery level state (charger not connected)
Red	20% or less
Yellow	20% ~ 80%
Green	80% or higher

Battery status indicator	Charging status (charger connected)
Red	Charging
Green	Fully charged

Note

- If you close the charging case, the battery status of the charging case is displayed.
- When the battery in the charging case is completely consumed, the earbuds cannot be turned on or off. Please charge the charging case.

Battery status indicator

Status	Operation
Bluetooth® search mode	The blue battery status indicator blinks.
Battery 20% or less	The red battery status indicator turns on and off.
Battery 20% ~ 80%	The yellow battery status indicator turns on and off.
Battery 80% or higher	The green battery status indicator turns on and off.
When a charging error occurs	The red battery status indicator blinks.
While battery is charged (charger connected)	The red battery status indicator turns on.
Battery charging completed (charger connected)	The green battery status indicator turns on.

Connecting to the Bluetooth App

Connecting the LG TONE Free App

1. Search for “LG TONE Free” on Google Play Store or App Store on your smartphone or scan the QR code below to install the LG TONE Free app.
2. Run the app to use various functions [Battery Status, Voice Alert Settings (Android only), Sound Effect, and Find my earbuds function, etc.] Only Android 7.0 or iOS 13 or higher is supported.

<Android>

<iOS>

Safety Precautions

Safety Notices and Warnings

The following "Safety Precautions" are to prevent unexpected dangers or damages, so be sure to read them thoroughly.

'Safety Precautions' are divided into 'Warning' and 'Caution'.

⚠ **WARNING:** Failure to follow the instructions may result in serious injury or death.

⚠ **Caution:** Failure to follow the instructions may result in minor injury or product damage.

⚠ **Warning**	• Do not drop the product from a high place. • Make sure there is no alcohol, or benzene in contact with the product. • Do not store the product in a wet or dusty place. • Do not place heavy objects on the product. • Earbuds tested under controlled laboratory conditions with an IPX4 rating. Resistant to splashed water. Dry before using. Do not charge while wet. Case has not been tested for IPX4.

⚠ **Caution**	• Do not disassemble, adjust, or repair the product. • Do not place the product near excessive heat or flammable material. • The product may be damaged if an incompatible charger is used. • Keep small components of the product away from infants or children. • Make sure that foreign objects do not enter the charger's connectors (Case charging port and power plug). Foreign objects in the charger's connectors may result in fire or electric shock. • If you have a medical device implanted, contact your doctor before using this device. • For your safety, do not remove the battery incorporated in the product. • This product has a built-in battery, and the battery cannot be removed or replaced. • If you arbitrarily replace the battery or don't replace it correctly, it may explode. • The lithium-ion battery is a hazardous component that can cause injury. • Battery replacement by an unqualified professional can cause damage to your device. • Do not discard the battery arbitrarily. Follow the local procedure for discarding batteries. • In order to prevent unnecessary energy consumption, disconnect the device when fully charged. Always use an easily accessible power outlet for charging your device. • Risk of fire or explosion if the battery is replaced by an incorrect type. • Do not store or transport at pressures lower than 11.6 kPa and at above 15,000 m altitude.

⚠ **Caution**	• Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types). • Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, may result in an explosion. • Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas. • A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas. • Do not carelessly throw away old batteries. It can cause an explosion or fire. The disposal method may vary by country and region. Dispose of it in an appropriate manner.

Precautions when Using the Product

Wipe the product clean if it has been exposed to a lot of sweat.

Keep the area around the earphones clean.

If you wear earphones for a long time, it may cause pain, and if the moisture in the ears remains long, it may cause skin trouble.

Prevention of product misuse

To prevent misuse of the product, please be sure to check the contents below.

Precautions for using the product

- You cannot charge external devices with the USB port.
- When moving the product, pull out the power cord and all cables connected to the product.
  - Otherwise, it may cause a fire or electric shock.
- Do not open or close the cover of the charging case with excessive force.
- Do not mount the earbuds on the charging case with the left and right sides reversed.
  - If you mount the earbuds reversed and close the cover of the charging case forcefully, it may result in a product breakdown.
- Make sure that water or any other liquid does not get into the charging case.
  - If liquid gets into the charging case, it may cause a breakdown.
- Be careful not to insert or touch foreign substances into the charging port.

Things to Check before Reporting Malfunction

Troubleshooting

If you experience the following symptoms while using the product, please check them again. They may not be malfunctions.

Symptom	Cause and Solution
If the power does not turn on	• Check the battery level and charge it.
If a call cannot be made with the earbuds	• If your smartphone does not support the hands-free function, you cannot use the call function. • Check the battery level and charge it.
If you cannot register the earbuds into the smartphone	• Check whether power is turned on by opening the cover of the charging case. • Check that the earbuds are switched to search mode. - If you touch and hold the touchpad on the left or right side of the earbuds for 3 to 5 seconds with the earbuds in the charging case, it is switched to search mode. • Check whether Plug and Wireless mode switch is turned on.
If you have replaced the earbuds or have problems with operation (factory reset).	• Touch and hold the left or right touchpad of the earbuds for more than 10 seconds with the earbuds in the charging case. - The battery status indicator of the charging case blinks red and the factory reset progresses. Please reconnect the earbuds after factory reset.

*You cannot use the factory reset and discovery mode in Plug and Wireless mode.

Appendix

Product Specifications

General	Description
Power consumption	Off: 0.3 W
Bluetooth Specifications	V 5.4 (HFP/A2DP/AVRCP)
Battery	Earbud: 3.85 V / 51 mAh, Lithium-ion Charging case: 3.85 V / 475 mAh, Lithium-ion
Music Play Time Earbuds & With Charging case	ANC Off: Up to 9 & Up to 36 hours* ANC On: Up to 5 & Up to 20 hours*
Charging time	Earbud: within an hour Charging case: within 2 hours 30 minutes* Fast Charging: 5 min charge for up to 60 min playtime* • When charging wired at room temperature
Rated Input Voltage	Earbud: 5 V ⎓, 120 mA Charging case: 5 V ⎓, 650 mA

*The use time may vary depending on the connected smartphone or use functions, settings, signal strength, operation temperature, using frequency band, and other use methods.

Operating Temperature	0 °C ~ +40 °C
Operating Humidity	5 % ~ 60 %
Dimensions (mm) / Weight (g)	Earbud: 21.6 mm (W) X 21.9 mm (L) X 24.2 mm (H) / 5.7 g (One earbud) Charging case: 65.0 mm (W) X 29.9 mm (L) X 32.6 mm (H) / 43.0 g
Frequency range	2402 MHz to 2480 MHz

*Duration of use and charging time may vary depending on the connected mobile device or charging adapter, features being used, settings, signal strength, operating temperature, frequency band, and other methods of use.

Safety Information

Prevention of Hearing Loss

If the volume of the headset is too high, you can experience permanent hearing loss. Set the volume to a safe level. It may sound normal, but if you often listen to high-pitch sounds that can damage your hearing, your ears get used to it over time.

If you feel ringing in your ears or hear faint voice, stop listening and get a hearing test. The louder the volume, the faster your hearing can be damaged.

Experts suggest you to do the followings to protect your hearing.

- Limit the time for using the headset with the high volume.
- Avoid the habit to turn up the volume not to hear loud noises around you.
- If you cannot hear people nearby, turn the volume down.

For how to set the maximum volume limit of the connection device, refer to the user manual provided with the connection device.

Additional Information

The **Bluetooth**® word mark and logos are registered trademarks 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.

Android, Google Play, the Google Play logo, and other related marks and logos are trademarks of Google LLC.

Radio frequency exposure

This Bluetooth LG Stereo Headset is a radio transmitter and receiver. When in operation, it communicates with a Bluetooth-equipped mobile device by receiving and transmitting radio frequency (RF) electromagnetic fields (microwaves) in the frequency range 2402 to 2480 MHz.

Bluetooth connection precautions

The following environments affect the range and reception of Bluetooth signals:

- When walls, metal, human bodies, or other obstacles exist between the Bluetooth device and the connected device.
- When equipment that uses 2.4 GHz frequency signals (wireless LANs, wireless phones, microwave ovens, etc.) is placed near the devices being used.
- When using a Bluetooth device (TV, laptop, etc.) other than the mobile phone, the sound quality may be affected by the specifications and performance of the device.

Battery Information

A rechargeable battery has a long service life if treated properly. A new battery or one that has not been used for a long period of time could have reduced capacity the first few times it is used. Do not expose the battery to extreme temperatures, never above +50°C or below -10°C. For maximum battery capacity, use the battery at room temperature. If the battery is used in low temperatures, the battery capacity will be reduced. The battery can only be charged in temperatures between 0°C and +45°C.

[For coin battery application]

⚠ WARNING

- **INGESTION HAZARD**: This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- The compatible battery type is only VDL 1240H
- The nominal battery voltage is 3.85 V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- The product contains non-replaceable batteries.

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Made for iPhone

"Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPhone, 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 iPhone may affect wireless performance.

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Symbols

⎓	Direct current (DC)
⚠	CAUTION
	Instructions
	Coin / button cell battery

The spelling errors or inaccurate contents in this user manual are subject to change without prior notice by LG Electronics.

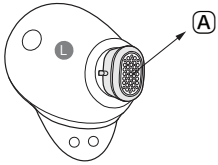
The output level shall automatically return to an output level not exceeding RS1 when the power is switched off.

Cleaning Guide

How to clean the ear gel and multi-function foam

If the ear gel or multi-function foam is clogged, the sound or ANC performance may be reduced.

You must clean the ear gel and multi-function foam periodically to ensure the best performance of your earbuds.



Earbuds

Ⓐ Speaker mesh

Multi-function foam

Ear gel

Please follow these steps to clean the ear gel and multi-function foam:

1. Separate the ear gel from the earbuds.
2. Separate the multi-function foam from the ear gel.
3. Remove any residue (earwax, sebum etc.) from the ear gel and multi-function foam using lukewarm water.

* If the multi-function foam is damaged, use the extra multi-function foam provided.

4. Put the multi-function foam into the ear gel and reassemble into your earbuds.

* Ensure that any water has dried completely before reassembling.