ATH-M50xBT2

User Manual
Wireless Headphones

audio-technica

Introduction

Thank you for purchasing this Audio-Technica product.

Before using the product, please read through the Quick Start Guide and Caution Guide, as well as this user manual when necessary, to ensure that you use the product correctly.

Safety precautions

Although this product was designed to be used safely, failing to use it correctly may result in an accident. To ensure safety, observe all warnings and cautions while using the product.

Cautions for the product

- Do not use the product near medical equipment. Radio waves may affect cardiac pacemakers and medical electronic equipment. Do not use the product inside medical facilities.
- When using the product in aircraft, follow airline instructions.
- Do not use the product near automatic control devices such as automatic doors and fire alarms. Radio waves may affect electronic equipment and cause accidents due to malfunction.
- Do not disassemble, modify or attempt to repair the product to avoid electric shock, malfunction or fire.
- Do not subject the product to strong impact to avoid electric shock, malfunction or fire.
- Do not handle the product with wet hands to avoid electric shock or injury.
- Disconnect the product from a device if the product begins to malfunction, producing smoke, odor, heat, unwanted noise or showing other signs of damage. In such a case, contact your local Audio-Technica dealer.
- Do not allow the product to get wet to avoid electric shock or malfunction.
- Do not put foreign matter such as combustible materials, metal, or liquid in the product.
- Do not cover the product with a cloth to avoid fire or injury by overheating.
- Follow applicable laws regarding mobile phone and headphone use if using headphones while driving.
- Do not use the product in places where the inability to hear ambient sound presents a serious risk (such as at railroad crossings, train stations, and construction sites).
- When charging, make sure to use the included USB charging cable.
- Do not charge with devices that have quick-charge functionality (with a voltage of 5 V or more). Doing so may cause the product to malfunction.
- To prevent damage to your hearing, do not raise the volume too high. Listening to loud sound for an extended period may cause temporary or permanent hearing loss.
- Discontinue use if skin irritation results from direct contact with the product.
- Do not catch your fingers or other body parts between the housing and the arm or inside the joints.

Safety precautions

Cautions for rechargeable battery

The product is equipped with a rechargeable battery (lithium polymer battery).

- If battery fluid gets into eyes, do not rub them. Rinse thoroughly with clean water such as tap water and consult a doctor immediately.
- If battery fluid leaks, do not touch fluid with bare hands. If fluid remains inside the product, it may cause malfunction. If battery fluid leaks, contact your local Audio-Technica dealer.
  - If fluid gets in your mouth, gargle thoroughly with clean water such as tap water and consult a doctor immediately.
  - If your skin or clothing comes in contact with fluid, immediately wash the affected skin or clothing with water. If you experience skin irritation, consult a doctor.
- To avoid leakage, generation of heat or explosion:
  - Never heat, disassemble or modify the battery, nor dispose of it in a fire.
  - Do not attempt to pierce with a nail, hit with a hammer or step on the battery.
  - Do not drop the product or subject it to strong impact.
  - Do not get the battery wet.
- Do not use, leave or store the battery in the following places:
  - Area exposed to direct sunlight or high temperatures and humidity
  - Inside of a car under the blazing sun
  - Near heat sources such as heat registers
- Charge only with the included USB cable to avoid malfunction or fire.
- The internal rechargeable battery of this product cannot be replaced by the user. The battery may have reached the end of its service life if the usage time becomes significantly shorter even after the battery has been fully charged. If this is the case, the battery needs to be repaired. Contact your local Audio-Technica dealer for repair details.
- When the product is disposed of, the built-in rechargeable battery needs to be discarded properly. Contact your local Audio-Technica dealer to learn how to properly dispose of the battery.

For customers in the USA

FCC Notice

Warning

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

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

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 to 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.

RF Exposure Statement

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter used in other systems. This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

For customers in Canada

IC statement

CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada's licence-exempt RSSs. 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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

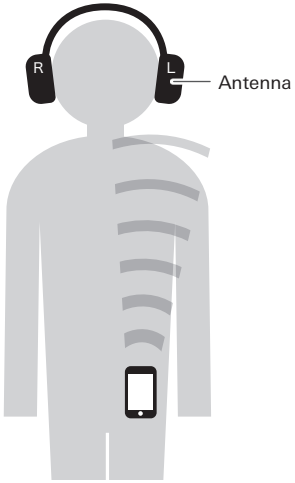
This device complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment.

Notes on use

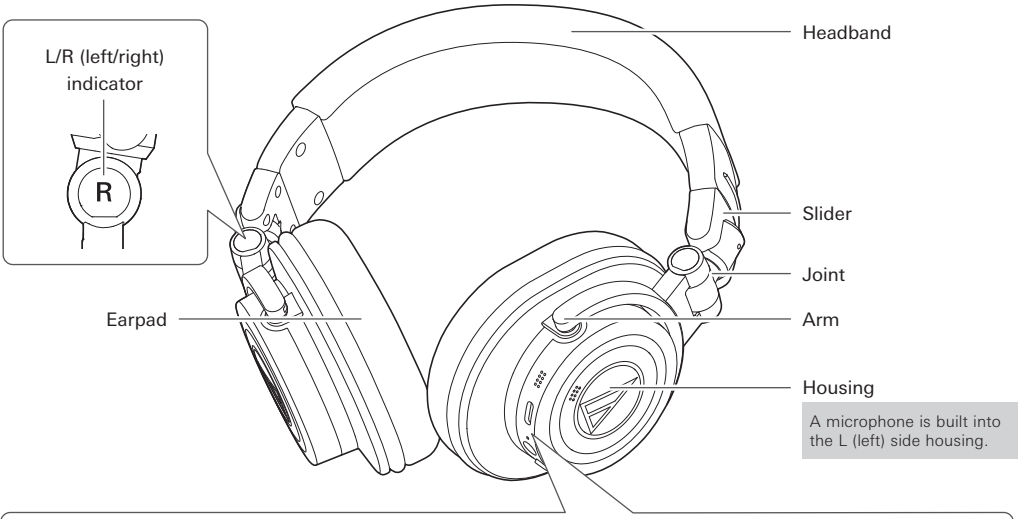
- Be sure to read the connected device's user manual before use.
- Audio-Technica will not be liable in any way for any loss of data in the unlikely event that such losses should occur while using the product.
- On public transportation or in other public places, keep the volume low so as not to disturb other people.
- Minimize the volume on your device before connecting the product.
- When using the product in a dry environment, you may feel a tingling sensation in your ears. This is caused by static electricity accumulated on your body, not by product malfunction.
- Do not subject the product to strong impact.
- Do not store the product in direct sunlight, near heating devices, or in hot, humid, or dusty places. Additionally, do not allow the product to get wet.
- When the product is used for a long time, the product may become discolored due to ultraviolet light (especially direct sunlight) and wear.
- Make sure to hold the plug when connecting and disconnecting the USB charging cable. The USB charging cable may become severed or an accident may occur if you pull on the cable itself.
- When you are not using the USB charging cable, disconnect it from the product.
- If the product is placed in a bag while the USB charging cable is still connected, the USB charging cable may become caught, severed, or broken.
- When you are not using the product, store it in the included pouch.
- This product can be used to talk on the phone only when using a mobile telephone network. Support for telephony apps that use a mobile data network is not guaranteed.
- If you use the product near an electronic device or transmitter (such as a mobile phone), unwanted noise may be heard. In this case, move the product away from the electronic device or transmitter.
- If you use the product near a TV or radio antenna, noise may be seen or heard in the television or radio signal. In this case, move the product away from the TV or radio antenna.
- To protect the built-in rechargeable battery, charge it at least once every 6 months. If too much time passes between charges, the life of the rechargeable battery may be reduced, or the rechargeable battery may no longer be able to be charged.

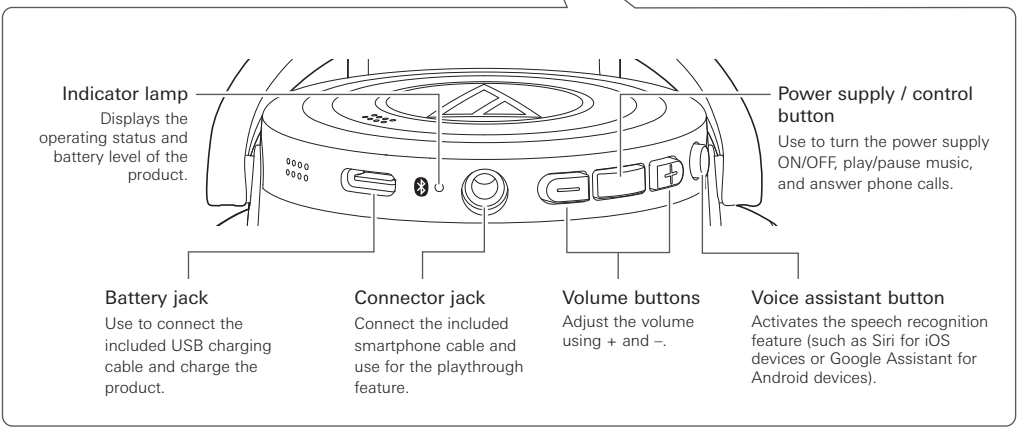
For a more comfortable Bluetooth® communication experience

The effective communication range of this product varies depending on obstructions and radio wave conditions.
For a more enjoyable experience, please use the product as close as possible to the Bluetooth device. To minimize noise and sound disruptions, avoid placing your body or other obstacles between the product's antenna (L side) and the Bluetooth device.

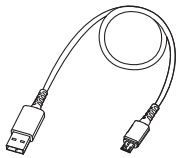


Part names and functions

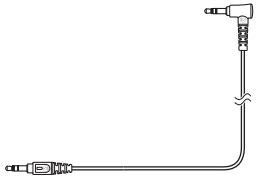




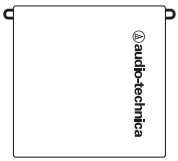
■ **Accessories**



• USB charging cable (30 cm (12"))



• 1.2 m (3.9') detachable cable

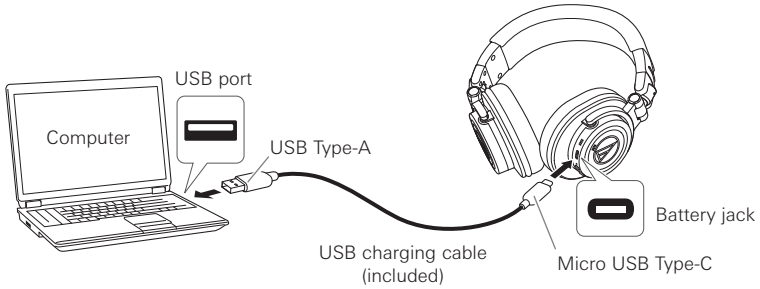


• Pouch

Charging the battery

- Fully charge the battery when using for the first time.
- When the rechargeable battery is running low, the product will beep through the headphones, and an indicator lamp will flash in red. In this case, charge the battery.
- It takes about 3.5 hours maximum to charge the battery fully. (This time may vary depending on usage conditions.)
- While charging the battery, the product's Bluetooth connection remains disabled and therefore the product cannot be used.

1. Connect the included USB charging cable (micro USB Type-C side) to the battery jack.
   - The included USB charging cable is designed for exclusive use with the product. Do not use other cables to charge the product.
   - When inserting the USB charging cable into the USB port or battery jack, insert it directly (horizontally).



2. Connect the included USB charging cable (USB Type-A side) to the computer to start charging.
   - While charging, the indicator lamp lights as follows (it may take several seconds for the indicator lamp to light).
     Lit in red : Charging
     Off : Charging complete
3. When charging is complete, disconnect the USB charging cable (USB Type-A side) from the computer.
4. Disconnect the USB charging cable (micro USB Type-C side) from the product's battery jack.

- If you start to charge while the product is on, it will turn off while charging. When you disconnect the USB charging cable (USB-type-A side) from the computer after charging is complete, the product will turn off.
- When charging, make sure to use the included USB charging cable.
- The product may not charge with cables other than the included USB charging cable.

Connecting via Bluetooth wireless technology

To connect the product to a Bluetooth device, the product needs to pair (register) with the device.

Pairing a Bluetooth device

- Read the user manual for the Bluetooth device.
- Place the Bluetooth device within 1 m (3.3') of the product to perform pairing correctly.
- To confirm the progress of the pairing process, wear the product while performing this procedure and listen for the confirmation tone.

1. Starting with the product turned off, press and hold the power supply / control button (for about 3 seconds).
   - The indicator lamp will light in white, and then flash.
2. Use your Bluetooth device to begin the pairing process and search for the product.
   When your Bluetooth device finds the product, “ATH-M50xBT2” will be displayed on the device.
   - For information about using your Bluetooth device, refer to the device’s user manual.
   - The product may be displayed as “ATH-M50xBT2”, “BLE_ATH-M50xBT2”, or both. If both are displayed, select “ATH-M50xBT2”. If only one is displayed, select that one.
3. Select “ATH-M50xBT2” to pair the product and your Bluetooth device.
   - Some devices may ask for a passkey. In this case, enter “0000”. The passkey may also be called a passcode, PIN code, PIN number, or password.
   - The product sounds a confirmation tone when pairing is complete.
   - Pairing a second device or more may take some time because the product automatically searches for previously connected Bluetooth devices. In such cases, wait until the indicator lamp (p.12) indicates “Pairing”.

About pairing

When connecting a new Bluetooth device, you need to pair it with the product. Once the Bluetooth device and the product are paired, you do not need to pair them again.
However, in the following cases you will need to pair again even if the Bluetooth device was paired once:

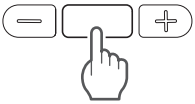
- If the product is deleted from the Bluetooth device’s connection history.
- If the product is sent out for repair.

Using the product

The product can use Bluetooth wireless technology to connect to your device and play music, receive phone calls, etc. Use the product for whichever of these purposes suits your needs.

Note that Audio-Technica cannot guarantee the operation of displays, such as the battery level display, or applications via Bluetooth devices.

Power supply ON/OFF

Power supply	Power supply / control button	Indicator lamp
ON	 press and hold the power supply / control button (for about 3 seconds).	Lights in white, then flashes in white*1 *2
OFF		Lights in white, then turns off*2

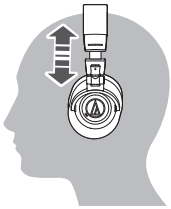
*1 It may take several seconds for the indicator lamp to light.

*2 For details, please refer to “Indicator lamp display”(p.12) .

Wearing the product

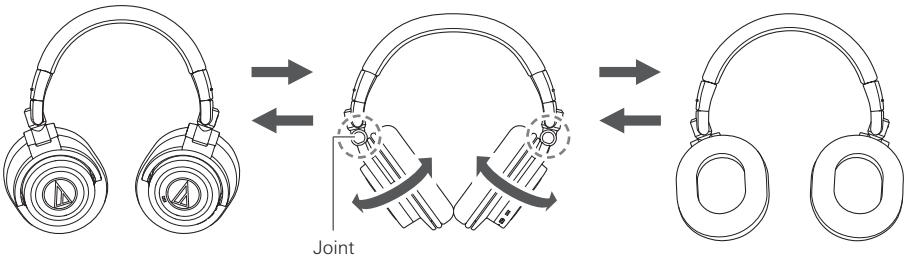
Put the side of the product marked “L” (LEFT) onto the left ear and the side marked “R” (RIGHT) onto the right ear, slide the slider up and down so that the earpads cover the ears, and then adjust the headband.

- You can turn the housing to about 180 degrees from the point where the arm is attached to the fulcrum. Do not apply excessive force because it does not rotate more than about 180 degrees.



Swivel mechanism

The joints swivel to allow the housings to fold flat, front and back. The swivel mechanism cannot rotate more than 90 degrees. Do not apply excessive force.

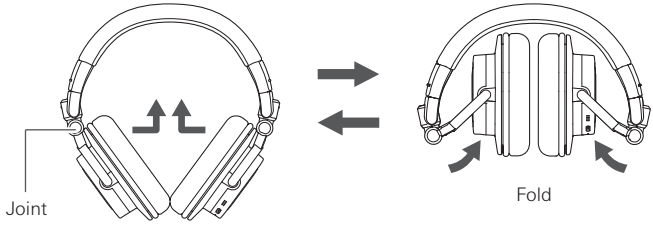


Using the product

Compact folding

You can fold the housing into the inner side of the headband using the joints at the fulcrum.

- Be careful so as not to get your fingers caught in the joints.
- When using the product, make sure to return the housing to the original position.

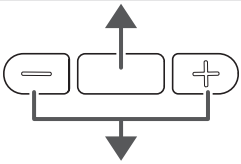


Listening to music

- To connect for the first time, pair the product and your device via Bluetooth wireless technology. If you have already paired the product and your Bluetooth device, turn on the Bluetooth device's Bluetooth connection before turning on the product.
- Use your Bluetooth device to start playback, referring to the device's user manual as necessary.

Control button

Press	Play/pause	Plays or pauses music. *1



Volume buttons

+ button	Press	Volume up	Increases the volume by 1 level. *2
	Press and hold (for about 2 seconds)	Skip forward	Plays the next track. *1
- button	Press	Volume down	Decreases the volume by 1 level. *2
	Press and hold (for about 2 seconds)	Skip back	Plays the previous track. *1

*1 Some controls may not be available for music on some smartphones.

*2 A beep is heard when the volume is at the maximum or minimum level.

- The volume control of some devices may not work well with the product.

Voice assistant button

Operation	Function
Press	Activates the speech recognition feature (such as Siri for iOS devices or Google Assistant for Android devices).

- May not function with some devices.

Using the product

Talking on the phone

- If your Bluetooth device supports telephone features, you can use the microphone built into the product to talk on the phone.
- When your Bluetooth device receives a phone call, the product sounds a ring tone.
- If a call is received while you are listening to music, music playback is paused. When you finish the call, music playback resumes. *1

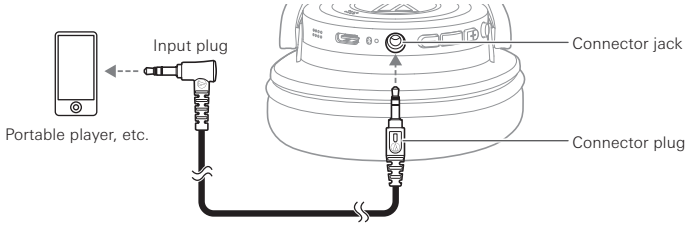
When	Operation	Function
Receiving a call	Press the power supply / control button.	Answers the call.
	Press and hold the power supply / control button (for about 2 seconds).	Rejects the call.
Talking on a call	Press the control button.	Ends the call.
	Press a volume button (+ or -).	Adjusts the volume (+ or -) of the call.

*1 Depending on your Bluetooth device, music playback may not resume.

- The phone call controls explained above may not be available on some smartphones.

Wired connection (playthrough function)

The product includes a playthrough function so it can be used as portable headphones to play back music even if the product is not charged. You can connect the connector plug of the included smartphone cable to the connector jack on the product, and the input plug to a portable player. You cannot operate the touch panel and control button of the headphones when using a wired connection.



Auto power off function

The product automatically turns off after 5 minutes of not being connected to a device.

Using the product

App for smartphones

You can use Audio-Technica's app for smartphones for more convenient use of the product.

CONNECT App
iOS, Android

https://app.at-globalsupport.com

Download on the App Store

GET IT ON Google Play

Indicator lamp display

The indicator lamp of the product indicates the product's status as explained below.

Status		Indicator lamp display pattern ● Red ○ White	
Pairing	Searching for device	○-○-○-○-○-○-○-○-○- …	Flashing every 0.4 seconds (○: gradually lights up)
Connection	Waiting to connect	○ — — — — — — — — ○ — — — — — …	Flashing every 8 seconds
	Connecting	○ — — — — ○ — — — — ○ — — — — …	Flashing every 4 seconds
Battery level	Battery level low	● ● ● — — — — ● ● ● — — — — ● …	Flashing red 3 times in 40-minute intervals
Charge	Charging	▬▬▬▬▬▬▬▬▬▬ …	Lit
	Fully charged	— — — — — — — — — — — — — — — …	Off

About voice guidance

The product provides English voice guidance in the following situations.

Situation	Voice guidance
Power on	Voice guidance varies depending on the battery level. Battery level high Battery level medium Battery level low
Bluetooth is connected	Bluetooth connected
Bluetooth is disconnected	Bluetooth disconnected
Battery level low	Low battery

Cleaning

Get into the habit of regularly cleaning the product to ensure that it will last for a long time. Do not use alcohol, paint thinners, or other solvents for cleaning purposes.

- To clean, wipe with a dry cloth.
- Wipe away any perspiration or dirt from the smartphone cable with a dry cloth immediately after use. Failure to clean the cable may cause it to deteriorate and harden over time, resulting in malfunction.
- Wipe the plug with a dry cloth if dirty. Failure to clean the plug may cause sound skipping or noise.
- Wipe away dirt from the earpads and headband with a dry cloth. Sweat or water on the earpads and headband may cause the colors to fade. In this case, we recommend that you wipe them with a dry cloth and dry them out of direct sunlight.

- If the product will not be used for an extended period of time, store it in a well-ventilated place free from high temperatures and humidity.
- Earpads are consumable parts. Replace them when necessary as they will deteriorate through storage and use. Contact your local Audio-Technica dealer for earpad replacement or other repairs.

Forced pairing mode / reset

If the product does not connect to a device (forced pairing mode)

If pairing cannot be canceled or is not successful, you can use forced pairing mode to perform pairing again.

1. Press and hold (about 3 seconds) the volume button (+/-) at the same time.
2. The product will switch to the “searching for devices” (pairing mode) state and you will be able to pair with your desired Bluetooth device.

If the product operates abnormally (reset)

Reset the product.

1. Press and hold (about 6 seconds) the volume button (+/-) and the power supply / control button at the same time.
2. Remove the product from the list of registered devices on your Bluetooth device.
3. Turn on the product again to perform pairing.

Troubleshooting

Problem	Solution
Power is not supplied.	• Charge the product.
Unable to pair.	• Confirm that the Bluetooth device communicates using Ver. 2.1+EDR or higher. • Place the product and the Bluetooth device within 1 m (3.3') of each other. • Set the profiles for the Bluetooth device. For procedures on how to set profiles, refer to the Bluetooth device's user manual. • Remove the pairing information for the Bluetooth device then pair the product with this device again. • Press and hold the volume buttons (+ and -) and the control button on the product for about 3 seconds (p.7). The product will start "searching for devices". Pair the Bluetooth device that you want to connect.
No sound is heard / Sound is faint.	• Turn on the power of the product and the Bluetooth device. • Turn up the volume of the product and the Bluetooth device. • If the Bluetooth device is set to the HFP/HSP connection, switch to the A2DP connection. • Move away from obstacles between the product and the Bluetooth device, such as people, metal or walls, and place the product and device closer together. • Switch the sound output of the Bluetooth device to the Bluetooth connection.
Sound is distorted / Noise is heard / Sound cuts out.	• Turn down the volume of the product and the Bluetooth device. • Keep this product away from devices that emit radio waves such as microwaves and wireless routers. • Keep this product away from TVs, radios, and devices with built-in tuners. These devices can also be affected by the product. • Turn off the equalizer settings of the Bluetooth device. • Remove obstacles between the product and the Bluetooth device and place them closer together.
Cannot hear the voice of the caller / Voice of the caller is too quiet.	• Turn on the power of the product and the Bluetooth device. • Turn up the volume of the product and the Bluetooth device. • If the Bluetooth device is set to the A2DP connection, switch to the HFP/HSP connection. • Switch the sound output of the Bluetooth device to the Bluetooth connection.
The product cannot be charged.	• Securely connect the included USB charging cable and charge the product.

• For details about how to operate your Bluetooth device, refer to the device's user manual.

Specifications

Headphones

Type	Closed-back dynamic
Driver	45 mm
Sensitivity	99 dB/mW
Frequency response	XX to XX,XXX Hz
Impedance	38 ohms

Microphone

Type	MEMS type
Polar pattern	Omnidirectional
Sensitivity	-38 dB (1 V/Pa, at 1 kHz)
Frequency response	85 to 15,000 Hz

Communication specifications

Communication system	Bluetooth version 5.0
Maximum RF output	5.1mW
Maximum communication range	Line of sight - approx. 10 m (33')
Frequency band	2.402 GHz to 2.480 GHz
Modulation method	FHSS
Compatible Bluetooth profiles	A2DP, AVRCP, HFP, HSP
Support codec	LHDC, LDAC, AAC, SBC
Supported content protection method	SCMS-T
Transmission band	20 to 20,000 Hz

Other

Power supply	DC 3.7 V lithium polymer battery
Charging time	Approx. 3.5 hours*
Operating time	Continuous transmission time (music playback): Max. approx. 40 hours*
Weight	Approx. 310 g (10.9 oz)
Operating temperature	5°C to 40°C (41°F to 104°F)
Accessories	• USB charging cable (30 cm (12''), USB Type-A / micro USB Type-B) • Detachable cable: 1.2 m (3.9') (3.5 mm (1/8''), gold plated 3-pole stereo mini-plug/L-shaped) • Pouch
Sold separately	• Earpad • Detachable cable

* The above figures depend on operating conditions.

For product improvement, the product is subject to modification without notice.

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