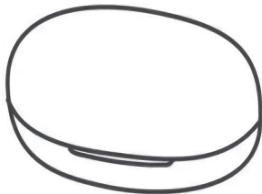


TC1600-04Y User manual



Thank you very much for choosing our Muama TC1600-04Y hearing aid.
To have a great experience, please read this manual carefully before use.

If you have any problem during wearing, please contact us @
muama12help@foxmail.com, we will help you asap.

1、Product introduction

1. Product parameters

Product name: In-ear hearing aid

Model: TC1600-04Y

Scope of application: Experience distribution, compensatory hearing for patients with air-induced hearing loss

Product Structure: The product consists of microphone, signal processor amplifier circuit, receiver, battery, housing and embedded software (version V1.0)

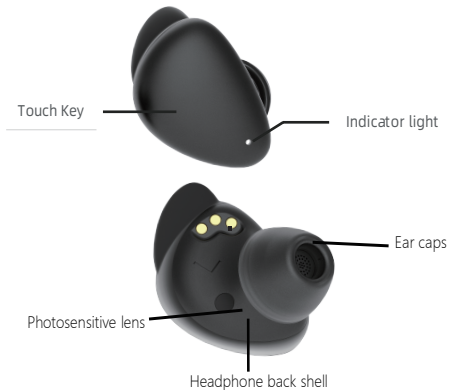
Product performance parameters:

	Model	TC1600-04Y
Output sound pressure value	Maximum (dB)	113
	High frequency mean(dB)	106
Maximum noise gain at full range(dB)		50
Full range sound gain (average high frequency)(dB)		43
Frequency response range		F1 \leq 300Hz F2 \geq 4500Hz

	Bluetooth Version 5.2
Bluetooth protocol	A2DP AVRCP HFP HSP SPP
Bluetooth name	Muama-BT
Working time	Call mode: 7 h Music mode: 6 h Hearing aid: 8 h
Charging time	Earphone: 1.5h Charging case: 2.5h
Battery capacity	60mAh/400mAh
Charging base charging cycle time	3 times
Working distance	≤10 m
Input voltage/current	5V/1A

△ Specification data are based on laboratory test result

2. Product Diagram



△ Remove the insulation sticker before use.

2、Product list



Earphone*2



Protecting case*1



ear cap *3 (S,M,L)



Type-C cable*1

△ The specific product accessories shall be subject to the actual situation

3、 Operation Guide

1. Turn on/ off

The earbuds turn on automatically when it is taken out of the charging case and turn off automatically when they are put into the charging case. Long press the touch button of the earbuds for 2 s to turn on manually, and long press the button for 5 s to turn off manually



2. Wearing

1. Choose a ear cap with suitable size to fit over the sound mouth;
2. Hold the earphone with your index finger and thumb and push the head side of the eardrum into the ear canal;
3. Gently pull the earlobe down and push the earphone to the best position with your index finger.



3. Charging

Charge the hearing aid

1. If the hearing aid indicator is steady blue, the hearing aid is charging.
2. The hearing amplifiers have been full-charged if the indicator is green.
3. It takes about 1.5 hours to charge the hearing amplifier fully.





Status	legend	Headphone indicator light
Charging	Blue	Blue light flashing
Full charged	Green	Green light

- △ Regularly clean and wipe the charging contacts of headphones and charging case; When the headset is low power, you will hear the "low power" prompt tone automatically when wearing it. It can be used for at least half an hour. After charging for 15 minutes, it can be used for another 2 hours.

4. Charging the charging case

1. Insert one end of the small head of the data cable into the charging interface on the charging box and the other end into the adapter.
2. Connect the adapter to the power supply:
Charging: green indicator light on,
Full-charged: white indicator light on
3. The fully charged case can charge the earbuds 3 times.

Status	legend	Indicator light
charging		white light flashing
full charged		All white lights are on

△ The specific product accessories are subject to the actual situation. If you have any questions, please contact the customer service in time.

4、Operation Guide

1. Bluetooth pairing



Take the earbud out of the charging case and wear them



Turn on your phone's Bluetooth search device



Select "Muama-BT" for pairing

△ When the earbud is paired with the mobile phone for the first time, there is a prompt tone of "pair". Bluetooth will automatically connect the next time you pair near the device.

2. Hearing Aid Mode

It will automatically enter the Hearing Aid mode (when Bluetooth is not connected), click the button 3 times to switch to the next Hearing Aid program, The program selection is shown in the following table:

Program mode	Applicable scenario	Prompt
Program 1	indoor	indoor
Program 2	outdoor	outdoor
Program 3	Strong noise reduction	The noise reduction

3. Telephone mode (Bluetooth is paired)

When a call comes in, tap the touch button twice to answer the call, press and hold for 2 seconds to reject the call.

During a call, tap the touch button twice to hang up the call.

4. Music mode

When Bluetooth is paired, please adjust the music volume through the mobile phone music APP.

5. Bluetooth mode

The hearing aid function and the Bluetooth function can be used at the same time, the two programs are automatically switched, and there is no need to turn off the Bluetooth when using the hearing aid function.

6. Restore factory Settings


Turn off and then long press the power button for 12 S, when hear "du" twice, and both the blue and green indicator light flash 5 times, it indicates that the earbuds is restored to factory Settings successfully.

5、General fault self-reference table

When problems occur in the use of your equipment, please refer to the following table for simple treatment:

Symptoms	Possible Cause	handling method
scream	<ol style="list-style-type: none">1. Excessive earwax in the ear canal2. The position of ear caps is incorrect3. High volume	<ol style="list-style-type: none">1. Clean the ear canal2. Take the earbuds out and put it on again3. Turn down the volume
noise	<ol style="list-style-type: none">1. Low battery power2. The sound hole is blocked3. The touch switch is faulty4. Battery Fault	<ol style="list-style-type: none">1. Charge the device2. Clean the sound holes3.send to repair4.send to repair
no sound	<ol style="list-style-type: none">1. Low battery power2. Battery Fault	<ol style="list-style-type: none">1. Charge the device2. send to repair

6、The name and content of the hazardous substance in the product

	Harmful substances					
Part name	lead (Pb)	pump (Hg)	cadmium (Cd)	Hexavalent chromium (Cr6+)	Polybrominated biphenyls (PBB)	Polybrominated diphenylethers (PBDE)
Circuit board (including LCD)	O	O	O	O	O	O
Battery	O	O	O	O	O	O
Shell	O	O	O	O	O	O
Packaging	O	O	O	O	O	O
<p>This form is based on SJ/T 11364.</p> <p>O Indicates that the content of the hazardous substance in all homogeneous materials of the part is below the limit requirement specified in GB/T 26572. materials of the part is below the limit requirements specified in</p> <p>X It Indicates that the hazardous substance exceeds the limit requirements specified in GB / T 26572 in at least one homogeneous material of the part.</p> <p>Note: The label of the product (as shown in the right picture) meets the requirements of China SJ/T 11364, and indicates Green service life (Under normal use).</p> 						

The "hazardous substances" shown in this table will not cause any harm to human body and the environment under the normal use of the product.

The "hazardous substances" and the components present in the form provide information to consumers and recycling practitioners about the presence of the relevant substances and facilitate the proper disposal of products when they are discarded.

"Waste Electrical appliances and electronic Recycling and Treatment Regulations" suggestive description

The company advocates environmental protection and low carbon consumption experience, Suggestions have of the company products user when no longer need this product recycling and disposal of waste electric and electronic products shall keep countries related laws and regulations and hand it over to the local manufacturers with recycling qualification approved by the state for recycling, reduce resource waste, protect the earth's natural environment.

7、Environmental conditions

1. Normal working conditions

The environment temperature: 10°C - 40°C

Relative humidity: ≤80%

Atmospheric pressure: 86Kpa - 106Kpa

Power supply: 1.2V - 3.7V

2. Transportation and storage conditions

Transport

The packaged hearing aid can be transported by general cargo transportation, but should be protected from exposure, rain, snow, direct contact or mechanical collision. Transportation environment conditions should be: temperature 0-38 °C, relative humidity not more than 80%.

Storage

If the hearing aid needs to be stored for a long time, it should be stored in the warehouse which with the ambient temperature between 0-38 °C, relative humidity is not more than 80%, has ventilation conditions and no corrosive odors that can affect the performance of hearing aids.

8、Electrical Safety Instructions

1.Hearing aid class

Device class: Internal power supply	The device is not an AP or APG
Type of the device: Type B	Equipment operation mode: continuous operation

2. Hearing aid electromagnetic compatibility

High-power devices can have electromagnetic interference with hearing AIDS, such as pacemakers. When using similar equipment, please

Consult a doctor. The electromagnetic compatibility of hearing AIDS complies with GB/T25102.13-2010 Electroacoustic hearing AIDS No

Part 13: Electromagnetic Compatibility (EMC) and has passed the EMC test

When the hearing aid complies with the hearing aid immunity specified in GB/T25102.13, the field strength of the RF test signal

	Bystander compatibility When in the following field intensity, $IRIL \leq 55$ dB field intensity is expressed as V/m				
Frequency range	0.08~0.8	0.8~0.96	0.96~1.4	1.4~2.0	2.0~3.0
Microphone mode	/	3	/	2	/
Pick up coil mode	/	/	/	/	/
Point to microphone mode	/	/	/	/	/

3. This section describes key components

The manufacturer undertakes to provide technical data, such as circuit diagram and component list, to the manufacturer if the relevant conditions are met. Testing technicians. Hearing aid key components include: microphone, receiver, movement.

9 、 Contraindications and precautions

Theoretically, any person with hearing loss may become a hearing aid user. Currently, there is no comprehensive quantitative indicator to measure whether the hearing loss person needs a hearing aid. However, medical attention should be considered first in the following cases, and then the doctor or the fitter should decide whether the hearing aid can be matched according to the needs:

1. Congenital atresia of the external ear or deformity of the external auditory canal, a large number of foreign bodies in the external auditory canal.
2. Sudden deafness, especially within 3 months.
3. Rapid progressive hearing loss.
4. Hearing loss is accompanied by vertigo, headache or earache.
5. Conductive deafness of any cause (external ear, middle ear inflammation, discharge, cerumen or foreign body embolism, etc.).
6. Patients with acute external otitis, tympanitis, chronic suppurative otitis media (in the purulent infection stage), acute purulent otitis media should not wear this hearing aid

△ A small number of users wearing hearing AIDS for the first time may have ear blocked、 their voice is too loud and other feelings, generally, this situation will be gradually adapted within three months

10、Safety and Precautions

1. the hearing aid should be placed in the charging base when not in use to avoid being lost or damaged
2. Do not place the hearing aid in an environment with high temperature (such as heat source, exposed fire source) and high humidity. Otherwise, the device may fail, catch fire, or explode.
3. Do not immerse the hearing aid in any liquid, the hearing aid should be removed before swimming or washing hair, bath; After swimming or bathing, hearing AIDS should not be worn until the ear canal is dry.
4. The surface of the hearing aid should be kept clean, and earwax should be cleaned regularly from the sound mouth of the hearing aid. If there is redness or swelling in the area where the skin is in contact with the headset, stop using it immediately and consult a doctor.
5. Do not disassemble the hearing aid by yourself.
- 6 hearing aid is not resistant to seawater, acid and alkaline solvents, chemical reagents and other corrosive liquids.
- 7 . The equipment and accessories may contain some small parts. Please keep the equipment and accessories out of reach of children.
8. If the product is not used for a long time, please turn it off after fully charging, and put it in a cool and dry place.
- 9 . please charge the device with the attached charging cable, when charging the device with a power adapter, the adapter should meets the corresponding safety standard or certified by CCC
- 10 Please do not discard the discarded hearing aids at will. If you need to discard them, please dispose of them in accordance with the relevant national regulations.

11.FCC Compliance Statement

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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the 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 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

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction