BTH-101-1

Magnetic Bluetooth Stereo Headset
User Manual

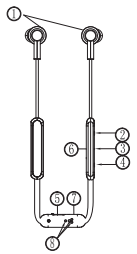
Bluetooth headset should be used with the compatible devices which support Bluetooth wireless technology. This allows you to make two calls and enjoy the music streaming at any time freely.
Please read this user manual carefully before using the headset, and also read your device's user manual regarding the Bluetooth function, and pay attention to those important safety and maintenance information.
Please keep the headset away from children.

Specifications

Bluetooth Specification	V4.2
Bluetooth Profiles Supported	HSP, HFP, A2DP, AVRCP
Audio Decoding Profiles Supported	APTX, APTX-LL, SBC, AAC
Noise Cancellation Version	CVC 6.0
Transmission Power	Class 2
Operation Range	Up to 10 Meters
Frequency Range	2.402-2.480GHz
Battery	Built-in Rechargeable 3.7V /60mAH Lithium Battery
Charging Voltage	DC 5V±0.25V
Charging Time	About 2 hours
Music Playing Time*	Up to 3 hours
Talk Time *	Up to 3.5 hours
Standby Time *	Up to 108 hours
Driver	φ10MM
Sensitivity of Driver	109±3dB/1kHz
Impedance of Driver	16Ω±15%
Frequency Range of Driver	20Hz~20kHz
Dimensions of Earbuds	L29×W16×H16
Dimensions of Control and Battery Box(mm):	L54.5×W11×H7
Dimensions of PCB Box(mm):	L40.6×W11.5×H8.9
Weight	About 24 g

*The time mentioned above may vary due to user's operation mode and device settings.

Structure Sketch



(1)Drivers (4)Volume Key+ (V+) (7)Indicator Light of Charging
(2)Volume Key- (V-) (5)Type C Charging Socket (8)Charging Pin
(3)Multifunction Button (MFB) (6)Micphone/Indicator Light of Power on/off

The Headset Status

Status No.	Status	Headset Performance
1	Pairing Mode	When the headset is in the mode of being searched, the indicator light flashses red and blue alternately and the speaker prompts "Bluetooth Pairing".
2	Not Connected	When the headset is not connected with the device, blue light will flash once each 2 seconds.
3	Standby Mode	When the headset is connected with the device but no any other operations, the blue light will flash once each 5 seconds.
4	Call Mode	When in a call, the indicator light flashes blue once each 10 seconds.
5	Charging Mode	The indicator light turns red while being charged, and will turn off automatically after being fully charged.
6	Low Voltage State	When the battery's voltage is below than 3.3V, the indicator light flashes red, and the speaker prompts "Battery Level Low" every minute.
7	Power off Automatically	If the pairing cannot be completed within 5 minutes after the Pairing Mode has been activated, the headset will power off automatically, the speaker prompts "Bluetooth Pairing Failed" - "DiDi" - "Power off".
		When the headset is disconnected in Standby Mode, it will power off automatically after 5 minutes and the speaker prompts "DiDi" - "Power off".
8	Disconnected Mode	When the headset is in standby mode and it is moved out the operation range of the phone, the headset will be disconnected, the blue light will flash once each 5 seconds and the speaker prompts "DuDu" (The speaker prompts "DuDu" each 15 seconds).
		When the headset is disconnected by phone, the blue light will flash once each 2 seconds and the speaker prompts "Bluetooth Disconnected".
9	Pairing Failed Mode	When the headset pairing failed, the speaker prompts "Bluetooth Pairing Failed".

Note: The two Phones mentioned follows will be called Phone A and B.

Charging Your Headset

1. Prior to using the headset for the first time or no use for a long time, please fully charge the battery.
2. Approximately 2 hours are required to fully charge the headset.
3. The indicator light turns red while being charged, and will turn off automatically after being fully charged.
4. When the headset is running out of battery, the indicator light will flash red (the headset will switch off automatically when the battery is drained). Please charge the headset as above steps in time to prolong the battery's useful life (Charging indication will be delayed for a few minutes if the headset has not been used for a long time or the battery is drained).

Note 1: Check the charging device is suit to the headset or not.
Note 2: Use only the supplied charger to charge the headset, if use other device may violate the validation or the maintenance article of this product and may cause danger.
Note 3: Do not attempt to force open the built-in battery as this could damage the headset.
Note 4: A fully charged headset will loose its power automatically if left unused. It is recommended to charge the headset each three months.
Note 5: Do not leave the headset in a too hot or too cold condition (best between -10℃ and 50℃) which may affect the headset's operations although it is fully charged.
Note 6: Do not dispose of the headset into fire or water.

Turning on Headset

In OFF MODE, press and hold MFB for 2 seconds, until you hear "Di Di Di Power on", the indicator light turns blue for 1 second, then the headset will enter into ON MODE. The headset will be connected automatically(when the headset isn't connect to any other Bluetooth devices and the pairing list is empty, the headset will enter into pairing mode automatically).

Turning off Headset

In ON MODE (except call state), press and hold MFB for 3 seconds, until you hear "Di Di Power off", the indicator light turns red for 1 second, then the headset will enter into OFF MODE.

Note:
Headset isn't connected with any devices within 5 minutes, it will automatically turn off.

Pairing Your Headset with a Bluetooth Phone

1. Ensure the headset is off, and the distance between your headset and phone is within 1 meter to activate the Bluetooth function on the phone.
2. Press and hold MFB for 2 seconds until the indicator light flashes red and blue alternately and could hear "Bluetooth Pairing" as PAIRING MODE.
3. Search Bluetooth devices (see the user guide of your phone for instructions).
4. Select headset "RATEL Ear BT" from the devices list of the phone.
5. Select headset "RATEL Ear BT"(If the version of the phone is or under 2.0, you should input pairing code "0000", and confirm). Later you could hear "Bluetooth Paired" and then "Bluetooth Connected". (If the pairing cannot be completed within 5 minutes after the PAIRING MODE has been activated, the headset will power off. Please repeat above steps to do the pairing again).
6. Ensure there is no obstruction between your headset and phone and within effective distance, you can use the headset freely.
7. Under the circumstance of power off, once you turn on the headset again, it will connect the paired phone automatically within operation range. (See the user guide of your phone for instructions.)

Answering a Call

When a call is coming, you can answer it with the ways as follows:

Method 1: Press MFB once.
Method 2: Answer the call with your phone.

Ending a Call

You can end the call you are answering with the ways as follows:

Method 1: Press MFB once.
Method 2: End the call with your phone.

Rejecting a Call

Press and hold MFB for 2 seconds to reject the call.

Calling Transferring

During a call, press and hold "V-" for 2 seconds and you will hear "Du" prompt voice and can shift the call between cellphone and headset.

Two-call Handling

When you are answering a call, there is another call coming:

1. Press and hold MFB for 2 seconds to end the current call and answer another one.
2. Shortly press MFB once to answer another call and hold on the current one.
3. After the above operation "2" settled, shortly press MFB to transfer one call to another.
4. After the above operation "2" settled, press and hold MFB for 2 seconds to end the current calling and shortly press MFB to end another one.

Note:
All the above operations have to respect the precondition that Phone supports Bluetooth hands free profile V1.5 and Phones are running under call holding function(Network service) from telecom.

Mute

During a call, press and hold "V+" for 3 seconds, the headset will enter into MUTE MODE. In MUTE MODE, the speaker will sound "Du" twice every 10 seconds, you could cancel the MUTE MODE if press and hold "V+" for 3 seconds again.

Adjusting the Volume

In call or music playing state, shortly press “V+ ”or “V-” once to adjust the volume. When the volume up to maximum or minimum, you could hear “Di” voice prompt.

Forward/Backward

Press and hold “V+” or “V-” for 2 seconds to forward the next song or backward the previous song.

Note:
Due to technology of different phones, it’s not sure for all phones can go back to the previous song, it may be back to the beginning.

Music Pause /Playing

Shortly press MFB to PLAY music(paired and standby condition), press MFB again to PAUSE music.

Voice Function

In PAIRED MODE, press MFB twice to activate voice function (ISO system should wait for 8-10 seconds to activate voice function after music pause). Ensure your phone supports voice function, and you have recorded the voice tag into your phone. See the user guide of your phone for instructions.

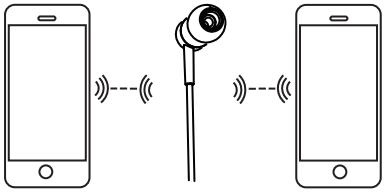
Headset Resetting

In any state, as long as the headset is charging, it will be reset.

APTX/APTX-LL Function

Connected phones with APTX/APTX-LL function, phones will show connected APTX/APTX-LL

Two-link Function



Note:
The two Phones mentioned follows will be called Phone A and B.

Two-link Function:

This function means “RATEL Ear BT” Bluetooth headset is connected with 2 Phones of Bluetooth function at the same time.
When the Phone A & Phone B are neither paired, the two link operation is as below:

1). Pairing Phone A: In OFF Mode, press and hold MFB until indicator light flashes red and blue alternately, use phone A to search the Bluetooth device “RATEL Ear BT”, enter pairing code “0000” and confirm, pair the headset with phone A, and the headset will enter into standby mode.

2). Turn off the Bluetooth function or switch off power in Phone A, the headset will go back to no connected status.

3). Pairing Phone B: In OFF Mode, press and hold MFB until indicator light flashes red and blue alternately, use phone B to search the Bluetooth device “RATEL Ear BT”, enter pairing code “0000” and confirm, pair the headset with phone B, and the headset will enter into standby mode.

4). Connecting the Phone A&B at the same time:

Method 1: Activate the Bluetooth function or switch on the power of Phone A, search the Bluetooth device “RATEL Ear BT” with Phone A, and connect it with this phone, here 2 Phones are connected with the headset.

Method 2: Activate the Bluetooth function of phone A/B and re-turn on the on mode headset. The headset will automatically connect with (A/B) phone. If need to connect the 2nd phone, you should use manual operation on phone.

Note 1: For the difference of Phones, it doesn’t guarantee the compatibility of all functions on every Bluetooth enabled device.

Note 2: You should enter pairing code “0000” if your phone Bluetooth version under 2.1, but there is no need if your phone is or above version 2.1.

Two-call Handling after 2-Link:

When you are answering a calling from phone A, there is another calling from phone B:

1. Press and hold MFB for 2 seconds to end the current call and answer another one.
2. Shortly press MFB once to answer another call and hold on the current one.
3. After the above operation “2” settled, shortly press MFB to transfer one call to another.
4. After the above operation “2” settled, press and hold MFB for 2 seconds to end the current calling and shortly press MFB to end another one.

Delete Pairing Record on the Headset

- In ON and not connected mode, press and hold “V+” for 2 seconds until the red and blue light flashes twice at the same time, you will hear “Du” prompt voice twice, then the pairing record on the headset will be deleted.
- When all the pairing records are deleted, after the headset turn on again, it couldn’t connect automatically and enter into pairing mode directly.

Disconnecting

To disconnect the paired headset from your phone, please turn off the headset or disconnect the headset from the Bluetooth menu of your phone. When disconnecting, you could hear “Bluetooth disco-nnected”.

Automatic Re-connecting

This function is once paired the headset will connect with phone automatically and no need connect any more(Make sure your phone Bluetooth function is activated and in the operation range with phone).

In OFF Mode, after activating the headset, it will connect the phones according to the pairing list in 5 minutes. If beyond 5 minutes and not connected, the headset will Power off.

Maintenance

- Do not use abrasive cleaning solvents to clean the headset.
- Do not allow the headset to touch with any sharp objects as this will cause scratching and damage.
- Please keep headset away from high-temperature, humidity and dust.

Additional Statements

- The headset is compliant with the specified Bluetooth version. It does not guarantee compatibility of all functions on every Bluetooth enabled device. Please check your device’s user manual for compatibility and functionality.
- Since there is maybe a defect of compatibility for different devices and especially for the third party players , it may cause the malfunction of music play/pause.
- The headset will be turned off automatically if not connect with any Bluetooth devices in 5 minutes.
- The headset will beep when operates successfully but this may be too low to hear.
- The above operations may vary due to different devices.

Common Faults and Exclusion

Faults	Reasons	Solutions
Can not turn on	Low battery	Charging headset for 2-3 hours
Can not turn off	Can not turn off in turning on status	Charging headset to reset
No sounds after pairing	Wrong pairing	Pairing again
Pairing and connecting slowly	Too many pairing records	Delete pairing records according to user manual
Flashing red light in a call	When battery is low, the indicator light will turn red.	Charging headset immediately
Without indcator light in charging	Type C charging cable does’t output voltage or DC power supply does’t output power	Checking whether the Type C charging cable is plugged or DC power switch is on
Turning off automatically	Low battery	Charging headset for 2-3 hours
Tremolo in music playing and calling status	Problem of music or volume is too loudly	Turning down the volume
Can not activate voice function	In music playing mode or music pausing mode within 10 seconds	ISO System should wait for 8-10 seconds to act ivate voice function after music pause
Can not be charged by charging pin	Please check if have dirty and sweat on charging pin	Clean the dirty and sweat on charging pin
Noise and echo in calling status	Environment interference or distance between headset and device is too far or volume is too loudly	Moving to another place or reducing the distance between headset and device or turning down the volume
Low voice of the calling party	Wearing headset is wrong	Adjusting wearing position of headset

FCC 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.

NOTE : Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.