OT-020C User's Guide

1. Introduction

1.1 Bluetooth technology

Bluetooth is a standard of wireless communication. Bluetooth technology is a kind of short distance wireless communication technology and an open global criterion. The Bluetooth products work on universal industry, science, medical (ISM) frequency. In order to avoid interference, adopt jumping frequency technique, divide 2.4GHz ~ 2.48GHz into 79 channels, transmit data at 1600 time/sec. The transmission distance is about 10m (Class Ⅱ).
ISM frequency of 2.4GHz is free open frequency, no need to apply for license.

2. **Operation** instructions:
Introduction
2.1 OT-020C Bluetooth headset key-press's image and key-press function explanation

A. MFB key-press: realize power on, power off, receiving, voice dialing, hang-up, pairing etc.
B. Volume +: realize increasing volume, mute, rejecting incoming call, redialing etc
C. Volume -: realize decreasing volume etc.

2.2 Power on

In the state of power off, long press MFB, speaker will make a short BEEP sound. Blue light flashes. Then OT-020C will power on.

2.3 Power off

In the standby state, long press MFB, speaker will make a long BEEP sound. Blue light closes. Then OT-020C will power off.

2.4 Pairing

Firstly, confirm OT-020C Bluetooth headset is in the state of power off and is in the effective distance with other Bluetooth devices.

a. Long press MFB, speaker will make a BEEP sound two times. Blue and red indicator will flash alternately. Then OT-020C will in pairing state.

b. Open Bluetooth function of mobile phone, choose mobile phone 's search function of bluetooth device, and proceed to search for OT-020C Bluetooth headset until "OT-020C" shows on mobile phone.

c. Select Bluetooth device"OT-020C"

d. Input ID code "0000", and confirm, then mobile phone pairing with OT-020C Bluetooth headset.

e. After successful pairing, before's Blue and red indicator flash alternately now changes to blue light flashes. Then the whole pairing process is done automatically.

2.5 **Power-saving mode**

a. When OT-020C Bluetooth headset fail in the process of pairing, after about 60sec, the bluetooth headset will enter the standby state automatically, after more 10 minutes, OT-020C will power off automatically.

b. When OT-020C Bluetooth headset disconnect with any Bluetooth device in the state of power on, it will close automatically after 10 minutes.

2.6 **Receiving an incoming call**

When OT-020C Bluetooth headset is power on and connect with mobile phone, telephone in.

a. Short press MFB.

b. Then blue indicator changes from slow flash to quick flash.

c. If OT-020C Bluetooth headset is power off, please make it power on firstly. After re-link mobile phone automatically (press one time to connect with mobile phone), press MFB again, then you can receive the incoming call.

2.7 **Voice dialing**

When OT-020C Bluetooth headset is power on and connects with mobile phone, you are going to dial by voice.

a. Short press MFB, you can hear short BEEP sound, then enter voice dialing.

b. Speak the people' name saved in telephone book of mobile phone, such as David.

c. Mobile phone will dial according to the number in telephone book of mobile phone.

The function demands Bluetooth mobile phone have voice recognition function.

2.8 **Rejecting an incoming call**

When OT-020C Bluetooth headset is power on and connects with mobile phone, telephone in but don't want to receive, long press VOL+, then the incoming call is rejected.

Last number redialing:

In the standby state, long press volume +.

2.9 **Volume adjustment**

In the state of standby, speaking and calling waiting, short pressing volume + or volume -, you can adjust volume. Short pressing volume +, the volume adds one step; Short press volume -, the volume decreases one step. When volume is adjusted to maximum or minimum, it will sound a warning by "Du Du".

2.10 **Switch between headset and mobile phone**

With the successful connection between the phone and headset when speaking is made, by long pressing the volume button, the BEEP sound can be heard, the voice will be transferred to the phone from the headset, by long pressing the volume again, the BEEP sound can be heard ,then the voice will be transferred to the headset from the phone.(these functions are different according to the different operations of the phone .please see the instructions of the mobile phone for details about the concrete ways of switching.

2.11 **Low battery warning**

When the battery of OT-020C Bluetooth headset is not enough, blue light closes, red light flashes, and speaker make short BEEP sound. Then you should charge OT-020C Bluetooth headset.

2.12 **Redial automatically**

When OT-020C Bluetooth headset is power on but disconnects with devices, also in effective

distance with mobile phone, if mobile phone had connected and paired with OT-020C, it will rebuild connection with mobile phone automatically.

2.13 **Charging**

Plug DC jack of power adapter into charging interface of charging socket, then place OT-020C Bluetooth headset into charging box, close the upper cover of charging box, then plug in power supply of power adapter, if red light flashes, then charging begin; after red light goes out, then charging end.

2.14 **End speaking**

In the process of speaking, short press MFB, it can end speaking.

3 **Performance parameter**

Item	Parameter
Standard	Bluetooth V2.0+EDR
Effective range	10m without obstacle
Audio frequency	15bits S/N 70db
Frequency	2.4GHZ-2.48GHZ ISM Band
Connection	Point-to-Point
Speaking time	4-5hrs
Standby time after pairing	About 70hrs
Standby time while power on and non-pairing	Close automatically after 10 minutes
RF Power	0dBm (class Ⅱ)
Power consumption of power supply	18~25mA when speaking
Battery capacity	Rechargeable Lithium Polymer Battery 70mAh
Charging	5V DC, AC adapter input/100-240V
Charging time	2~3hrs
Using temperature	0 ℃ to +60℃
Storage temperature	-20℃ to +85℃
Pairing code	0000
Pairing	One-to-one, allow many primary device but need to connect by turns
Operation voltage	3.0~4.2V
Receiving sensitivity	-70dBm
Standard accessories	Headset body, ear-hook, charging box, charger (5V±0.2), user's manual

4 **Important information**

4.1 Product maintenance

a. Please keep the product dry, and use clean soft cloth to clean Bluetooth headset's surface.

b. Please don't keep Bluetooth headset in the place of having many dusts, high temperature or extremely low temperature.

c. Please don't take down Bluetooth headset by yourself. The unprofessional disposal will lead to its damage.

d. Please make wild operation for Bluetooth headset, such as beating and knocking etc.

e. Please don't make charging port of Bluetooth headset short circuit, which leads to battery damage.

f. Please use original binding fitting, it is not within the guarantee range when any accident caused by using other fittings at random.

4.2 **Trouble clearing**

Phenomenon	Reason	Solving method
Can not power on	Low battery	Charging headset 2 -3 hrs
No voice after pairing	In corrective pairing	Pairing again
Can speaking but red light flashes	Low battery, red light flashes	Charging headset immediately
Charging without indication	AC adapter without voltage output	Check AC adapter whether plug or not, or the switch of power supply whether open or not.
Headset close automatically	Low battery	Charging up headset 2 -3 hrs
Headset has echo.	Too loud volume or it is in noisy environment	Adjust volume or change a place
Speaking has noise.	The environment interference or the headset is far from device.	Change a place or make headset and device closer.
The other side is in a low voice.	The pairing of headset is not correct.	Adjust the position of headset

5 **Storage environment**

a. Working temperature's range: 0℃ to 60℃ without loss of function

b. Storage temperature requires: -20℃ to 60℃without any damage to the Kit's contents

c. Humidity range: 30％-90％humidity @ 60℃ without loss of function

6 **Caution**:

The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

Notes: 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 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.