

## Wireless Speakerphone



Please read this manual carefully and strictly follow the requirements

It is recommended that you keep this manual for future reference

Thank you very much for purchasing our products. In order to make you better use our products, please read the product manual carefully before using this product.

We will update the contents of this manual according to the enhancement of product functions, and regularly improve or update the products or procedures described in this manual. The updated contents will be added to the new version of this manual without notice. In case of any doubt or dispute in the product description, the final interpretation of the company shall prevail.

**Packing list**

Serial number	Product name	quantity
1	Wireless speakerphone	1 pcs
2	Type-C cable	1 pcs
3	User manual	1 pcs

**Product features**

This product has beautiful shape, fashion and generous, small and light shape, easy to carry, powerful function and stable performance. With adaptive echo cancellation and noise suppression functions, excellent full duplex communication technology, high fidelity speaker audio output. It provides two connection modes of USB and Bluetooth 5.0, supports standard 3.5mm headset output, and the Bluetooth model has a built-in lithium battery with friendly human-computer interaction interface.

1. Full duplex voice call clear technology is adopted to enable speech and listening to be carried out at the same time. It is not necessary to choose listening and speaking in the meeting, nor will it affect the coherence of conference voice.
2. Two high-sensitivity MICs are built in, and the beamforming microphone array technology is adopted to effectively reduce noise interference. The maximum pickup distance can reach 5m, and it is recommended to use within 3M.

- 3. Advanced echo cancellation technology, noise elimination technology, whistling suppression technology and dynamic noise suppression technology in the industry are adopted, which can be used in noisy environment.
- 4. The built-in high-power speaker has full sound and good reducibility. It can truly restore people’s timbre and tone, output high-quality sound and ensure sufficient coverage.
- 5. The Bluetooth model adopts a newly upgraded Bluetooth 5.0 chip, with a transmission distance of up to 10 meters, stable transmission, anti-interference and comfortable.
- 6. The Bluetooth model has a built-in lithium battery, which can charge the machine through the type-C interface. It can work continuously for 4 hours when fully charged.
- 7. Equipped with intelligent two-color LED light, it can easily display the status of various functions, such as power, volume, mute, etc.
- 8. 8 touch interactive keys: Bluetooth connection, battery power, Bluetooth phone hang up, power switch, Bluetooth phone answer, microphone mute, volume increase and volume decrease, which is convenient for users to operate.
- 9. Support external headphones or loudspeaker with power amplifier.

Technical indicators

Microphone parameters	
Model of complete machine	KS-BU2B (USB + Bluetooth)
Main chip	AndesCore V3 32bit Mcu
Microphone	2 omnidirectional microphones
sensitivity	-38±1dBV
Signal to noise ratio	65dB(A)

Frequency Response	100Hz ~ 16KHz (playback: 100hz-16khz, recording: 100Hz - 8kHz)
sampling rate	48Khz (playback: 48Khz, recording: 16KHz)
Automatic noise reduction	support
Speaker Power	4.2W MAX
automatic gain control	support
Echo cancellation	Advanced echo cancellation algorithm, full duplex communication
Pickup radius	The maximum pickup distance can reach 5m, and it is recommended to use within 3M
Interface	
Audio output interface	3.5mm audio earphone output interface
USB audio interface	type C
Wireless audio interface	Bluetooth 5.0
Built in rechargeable battery	1400mAh (4 hours)

Charging mode	Type C charging (2.5 hours)
basic function	
Key	Volume up, volume down, microphone mute, on / off, power query, Bluetooth connection (switching with USB), Bluetooth hang up, Bluetooth hang up
Voice prompt	Bluetooth status prompt
Other parameters of the whole machine	
power waste	<5W
Standby time	4Months
work environment	Working temperature 0 ~ 40 ℃, working humidity 10% ~ 95%
Dimensions (L x W x H)	120mm x 120mm x 36mm
Fuselage weight	224.1g
body color	Iron grey



Host structure



**① Loudspeaker**

A sounding horn

**② Omnidirectional microphone**

Used to pick up sound









**③ Power charging interface**

Type-C interface

**④ Audio interface**

3.5mm earphone connector

## Key function and indicator description

Key description		indicator light	
	Bluetooth connection key (USB switch)	Extinguish	Bluetooth off
		The blue light is always on	Bluetooth connected
		The blue light flashes	Bluetooth waiting for connection
	Battery power display key	Short press the blue light for hierarchical display	
	Bluetooth hang up key	Short press to hang up the Bluetooth phone	
	power switch	Press and hold for 3 seconds to turn on and off	
	Bluetooth answer key	Short press to answer a Bluetooth call	
	Microphone mute button	When mute is on, 8 red lights are always on	
	Volume down button	The blue light turns off from right to left	
	Volume increase button	The blue light turns on from left to right	

Note: 1. The whole machine will be automatically reconnected every time it is powered on. If the reconnection is unsuccessful, it will enter the Bluetooth pairing mode after 1 minute. Long press the Bluetooth connection key for 3 seconds, and the device will clear the current Bluetooth connection and re-enter the pairing mode;

2. when Bluetooth is turned off, the USB audio device can only be used with wired connection. The corresponding blue LED at the power switch flashes to indicate that USB is waiting for connection, and constant light indicates that USB connection is successful;

3When a Bluetooth phone calls in, the blue LED corresponding to the Bluetooth answer key and Bluetooth hang up key flashes to remind the user to make a selection operation;

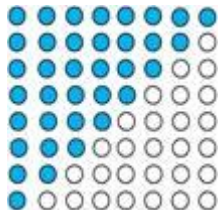
4. when in Bluetooth call status or Bluetooth caller dialing status, the blue LED corresponding to the Bluetooth answer key is always on;

5. automatic shutdown function. If Bluetooth and USB are not connected within 5 minutes, the whole machine will enter the automatic shutdown state;

6Press and hold the microphone mute key and volume increase key for 10 seconds to enter the upgrade mode.

Briefly press the battery power, and the corresponding 8 indicator lights (blue) above the key display the remaining power;

In order not to affect your normal use, please charge in time when the remaining power is less than 25%.



Turn on 8 lights: the remaining power is more than 85%

Turn on 7 lights: the remaining power is less than 80%



Turn on 6 lights: the remaining power is less than 75%

Five lights on: the remaining power is less than 60%

Four lights on: the remaining power is less than 45%

Three lights on: the remaining power is less than 25%

Two lights on: the remaining power is less than 10%

One light on: the remaining power is less than 5%

## **USB power and charging**

1. The machine has a built-in rechargeable battery. Please fully charge the battery before using the machine for the first time.
2. When the type-C cable is inserted into the type-C interface of the machine and the other end is inserted into the USB interface of the computer or USB 5V charger, the battery will be charged. When charging, the battery power indicator will light red.
3. When fully charged, the battery level indicator will change from red to green.
4. When the battery is low in use, all 8 red lights will flash. If this happens, please charge the machine in time.

### **be careful:**

USB power adapter without security certification may cause danger or damage to the machine.

## **Operating instructions**

### **Network teleconference function operation**

The machine is connected to the computer through the type-C cable. It can be used as an external microphone and speaker device for computer network teleconference and music playback.

## 1. Preparation before use

This machine is applicable to intelligent devices of Windows XP / Windows Vista / windows7 / windows8 / windows10, IOS and Android (version 4.4, etc.) operating systems. The USB interface is required to be usb11 or higher (USB2.0 or above is recommended), and the Internet is connected. The instant messaging or VoIP software package with network telephone function (such as QQ, Skype, etc.) and the USB wired adapter matched with the host are plug and play, and there is no need to install additional drivers.

## 2. Power on and wired connection

Insert the type-C connecting cable into the type-C interface of the machine, connect the other end to the USB interface of PC or terminal equipment, long press the start button of the machine, the indicator light of the machine will complete self-test and flash, and then the speaker will send a start prompt music, that is, the machine is started successfully.



### **3. Call**

Start the software with network telephone function on the computer and operate the call function according to the software instructions. After the network telephone is connected, you can have a network telephone conference with the other party.

### **4. Speaker volume adjustment**

During a conference call, if the volume of the speaker is too low or too high, you can first press the "volume increase" or "volume decrease" button of the machine to adjust. The volume is the maximum when the eight blue lights are all on, and the speaker is silent when the eight lights are all off. You can meet the requirements by adjusting the appropriate volume. If you feel that it is not enough, you can adjust the volume of the speaker on the computer intelligent device.

### **5. Microphone mute**

During a conference call, if you want to mute the local recording, press the "microphone mute" key. At this time, the 8 Red mute indicators are always on. At this time, you can only hear the other party's voice, but the other party can't hear your voice; To cancel the mute, press the "microphone mute" key again to resume the call. At this time, the 8 Red indicators will go out.

### **6. End conference call**

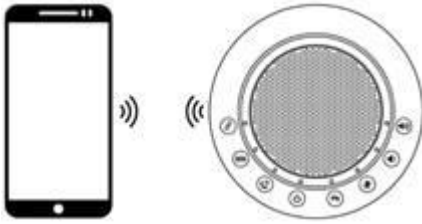
According to the operation method of computer network telephone software, hang up the call with the other party to end the network telephone conference.

### Bluetooth mobile phone connection method

1 Turn on the Bluetooth speaker device and press the "Bluetooth connection key" to enter the pairing mode. At this time, the Bluetooth connection indicator is flashing blue.

2 Open the Bluetooth connection of the mobile phone, enter the Bluetooth device list, click the speaker name "BT meeting box" to be accessed, and confirm.

3. some mobile phones will prompt whether the speaker is allowed to answer language calls. If yes, you can confirm it.



### Connection and use method of Bluetooth adapter

1 Turn on the Bluetooth speaker device and press the "Bluetooth connection key" to enter the pairing mode. At this time, the Bluetooth connection indicator is flashing blue.

2Connect the Bluetooth adapter to the computer. The adapter name is "BT meeting box". At this time, the indicator light of the Bluetooth adapter flashes red. When Bluetooth is automatically connected, the indicator light always turns blue, that is, the connection is successful.

3Some computers have their own Bluetooth function. At this time, there is no need to connect the Bluetooth adapter. Just turn on the computer Bluetooth for search and pairing.



### **Connection and use method of external earphone and external speaker with power amplifier**

1. the headphone interface is externally connected with headphones. At this time, there will be sound in the headphones, and the speaker of the device itself will be switched to no sound.

2When the headphone device is unplugged from the headphone interface, the sound will immediately switch to the external speaker output and exit the headphone mode.

3When an external speaker with power amplifier is connected, long press the “volume increase key” for 10s to enable the echo cancellation function.



**Troubleshooting**

Before seeking service from the maintenance personnel or manufacturer, the following steps can be followed for troubleshooting. If the problem cannot be solved, please consult the dealer or manufacturer.

Fault phenomenon	reason	resolvent
Bluetooth connection failed	Bluetooth connection not turned on	Press the Bluetooth connection key, the Bluetooth indicator flashes, and then conduct Bluetooth pairing connection

No sound from horn	The device end does not select this machine as the output source	Set the device end as the output source
The microphone cannot pick up	The device end does not select this machine as the input source	Set the device end as the input source
Unable to power on	Low Battery	Connect the power adapter for charging
The horn cannot be muted	The speaker volume is adjusted to the minimum mode	Briefly press the volume reduction key until 8 indicator lights are off, and the horn enters the mute mode

### **FCC Statement**

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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.

RF warning statement:

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