JRBC03 Toslink/SPDIF Wireless Adapter
User Manual

Thank you for purchasing JRBC03 Toslink Bluetooth transmitter & receiver, Please read the following instruction to learn how to configure and use your product more effectively.

INTRODUCTION

JRBC03 is a Bluetooth transmitter and receiver with Toslink

* In Transmit (TX) mode, it can stream audio FROM your mobile , TV , PC,or home stereo TO any Bluetooth headphones or speakers.

* In Receive (RX) mode, it can receive wireless audio FROM your iPhone, iPad or PC TO your home stereo or speakers.

PRODUCT OUTLOOK

①. **3.5MM audio line interface (AUX IN)**
②. **3.5MM audio line interface (AUX OUT)**
③. **SPDIF OUT**
④. **SPDIF IN**
⑤. **Micro USB charging port**
⑥. **TX / RX Switch**
⑦. **SPDIF / AUX Switch**
⑧. **"M" button Multi-function key**

SPECIFICATION

Model NO	JRBC03
Bluetooth Version	V4.2
Chipset	CSR BC8670
Frequency	2.402GHz-2.480GHz
Receiver working time(AUX)	18Hours
Transmitter working time(AUX)	18Hours
Receiver working time(SPDIF)	15 Hours
Transmitter working time(SPDIF)	15 Hours
Charging time	About 2Hours
Bluetooth Profile	**RX:A2DP AVRCP TX:A2DP**
Support dual stream(TX mode)	Support one transmitter connect two Bluetooth speaker or headphone(use one CEDEC at the same time)
Support dual connection in receiver mode	Support connecting with two mobile phone
The pairing code for the Supported Bluetooth headset, Bluetooth receiver, Bluetooth speakers and other Bluetooth devices	0000, 1111, 1234, 8888
CODEC	TX: Priority APT-X, Second SBC,Third: APTX-LL; Fourth：FastStreamRX:SBC

APTX Tips	When connect with one Bluetooth device, it supports APT-XLL 48kHZ CODEC in priority (headset or speaker should also support APT-X); when connect with two bluetooth devices, it will switch to SBC CODEC
Latency	~ 40 milliseconds (ms)
Battery	400mAH rechargeable lithium battery
Charging supply	100-240V AC Adapter
Working temperature	5VDC,≥300mA -10-55℃
Net weight	38g
Dimension	54*54*15mm

AS BLUETOOTH TRANSMITTER

JRBR03 is through toggle switch to select the model is transmitter or receiver mode. you can switch to "TX" no matter it is power on or off.

Operation and LED Instruction

1.Power on:

In off state, press MFB around 2 seconds, Blue LED flashes twice,JRBR03 is powered on.(after power on, it would enter into pairing mode quickly with Blue LED flashes if JRBR03 did not connect with any device.)

2.Power off:

In on state, press MFB around 2 seconds, Red LED flashed twice, JRBR03 power off. Please don't turn it on immediately after turning it off, since the voltage of the chipset may not

disappear totally, please wait 3 seconds to re-power it on.

3.Pairing mode:

Power on the unit, double click the MFB, the Blue LED flashes quickly to enter pairing mode.

4.Re-connect with the connected device

Power on the unit JRBC03 will connect to the latest two connected devices automatically. after two connects successful, JRBC03 will be two Blue LED lights on.

5. Re-connect status:

Blue LED flashes slowly

6.Pairing status:

Blue LED light flashes quickly used as Bluetooth transmitter status

7.No Connected standby status:

Blue LED light flashes once every second in no connection which means standby status

8.Connected standby status:

Connected one device, one Blue LED light on, connected two devices,

Two Blue LED lights on.

9.Pair A device status:

After one connects successful,one Blue LED light on and another Blue LED will flash quickly to search another device, if it is not searched in 30 seconds, another Blue LED light off. Press once MFB again, another Blue LED will flash quickly and continue to search another device. *(NOTE: After pairing with one Bluetooth device, if it is still SERACHING ANOTHER DEVICE, the music which it is playing will be a little stuck, Stop to search or have paired with another device, the sound will be back to normal)*

10.How to pair two devices:

In off state, press and hold MFB for 4 seconds, the Blue LED flashes quickly to enter into

pairing mode, if JRBC03 does not enter into pairing mode, press double click MFB (keep the operation consistently)to enter into pairing mode. Make Two devices to enter into pairing mode. Two devices will be connected in 10-20 seconds.

11.Interface switching:

In off state or working state, switch between AUX and SPDIF through the toggle switch.

While working as a Bluetooth transmitter, JRBC03 could connect with two devices and these two devices can play music simultaneously

The compatibility as Bluetooth transmitter when connect with two devices simultaneously

  1.Under TX mode, when JRBC03 is paired with two Bluetooth devices, JRBC03 is compatible with almost all the Bluetooth devices, but just in case there is no sound for one of the devices or the playing is always stuck, please re-pair the two devices for two or three times to check if it works well; if no, we suggest to have another try with two same Bluetooth devices, due to different Bluetooth chipset has different firmware settings.
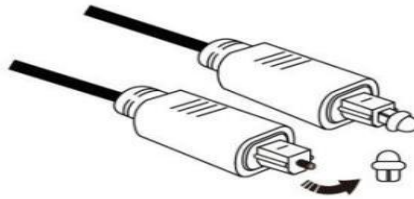
PAIR WITH BLUETOOTH HEADPHONE OR SPEAKER

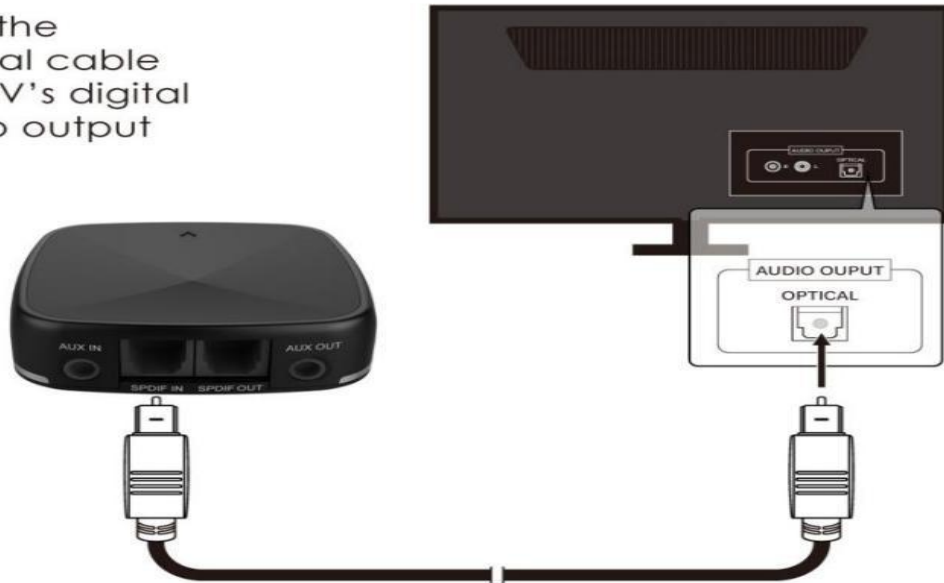**The connect includes three connection options.**

Option1: **Digital optical audio out(TOSLINK)**

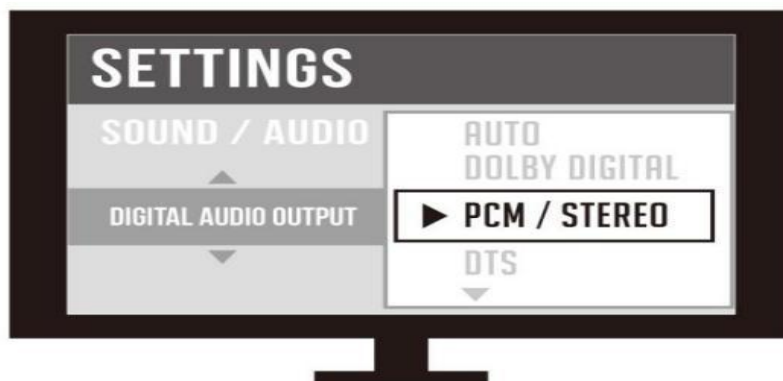## OPTICAL S/PDIF [DIGITAL]

remove protective caps

plug the optical cable into TV's digital audio output

AUX IN   AUX OUT
SPDIF IN   SPDIF OUT

AUDIO OUPUT
OPTICAL

IF TV AUDIO PLAYS FROM HEADPHONE, SETUP IS COMPLETE.

NO SOUND? CHECK TV SETTINGS MENU.†

SETTINGS

SOUND / AUDIO   AUTO
                       DOLBY DIGITAL
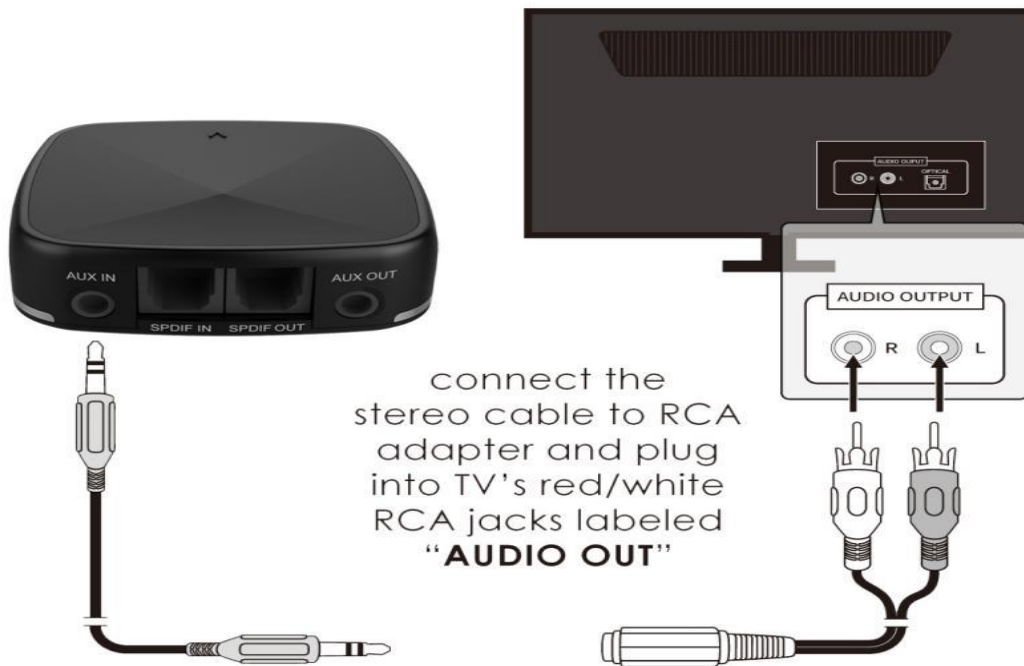DIGITAL AUDIO OUTPUT   ► PCM / STEREO
                       DTS

select "PCM / Stereo" in the audio output settings menu** of your TV

**if sound is still not audible, select "PCM / Stereo" in the audio output settings menu(s) of your video streaming app(s) and/or device(s)

†EXACT MENU AND ITEM NAMES MAY VARY BETWEEN TVS

Option 2: RCA audio out (red and white connectors)

RCA

connect the stereo cable to RCA adapter and plug into TV's red/white RCA jacks labeled **"AUDIO OUT"**

AUX IN   AUX OUT

SPDIF IN   SPDIF OUT
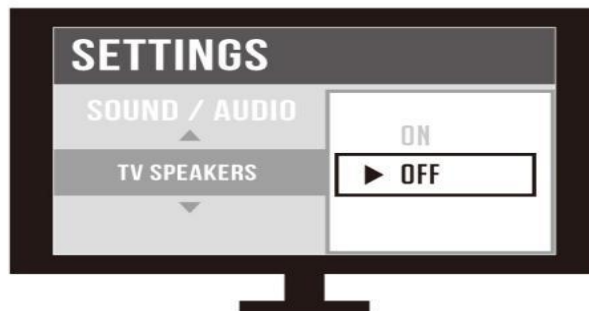
AUDIO OUTPUT

R   L

IF TV AUDIO PLAYS FROM HEADPHONE, SETUP IS COMPLETE.

NO SOUND? CHECK TV SETTINGS MENU.†

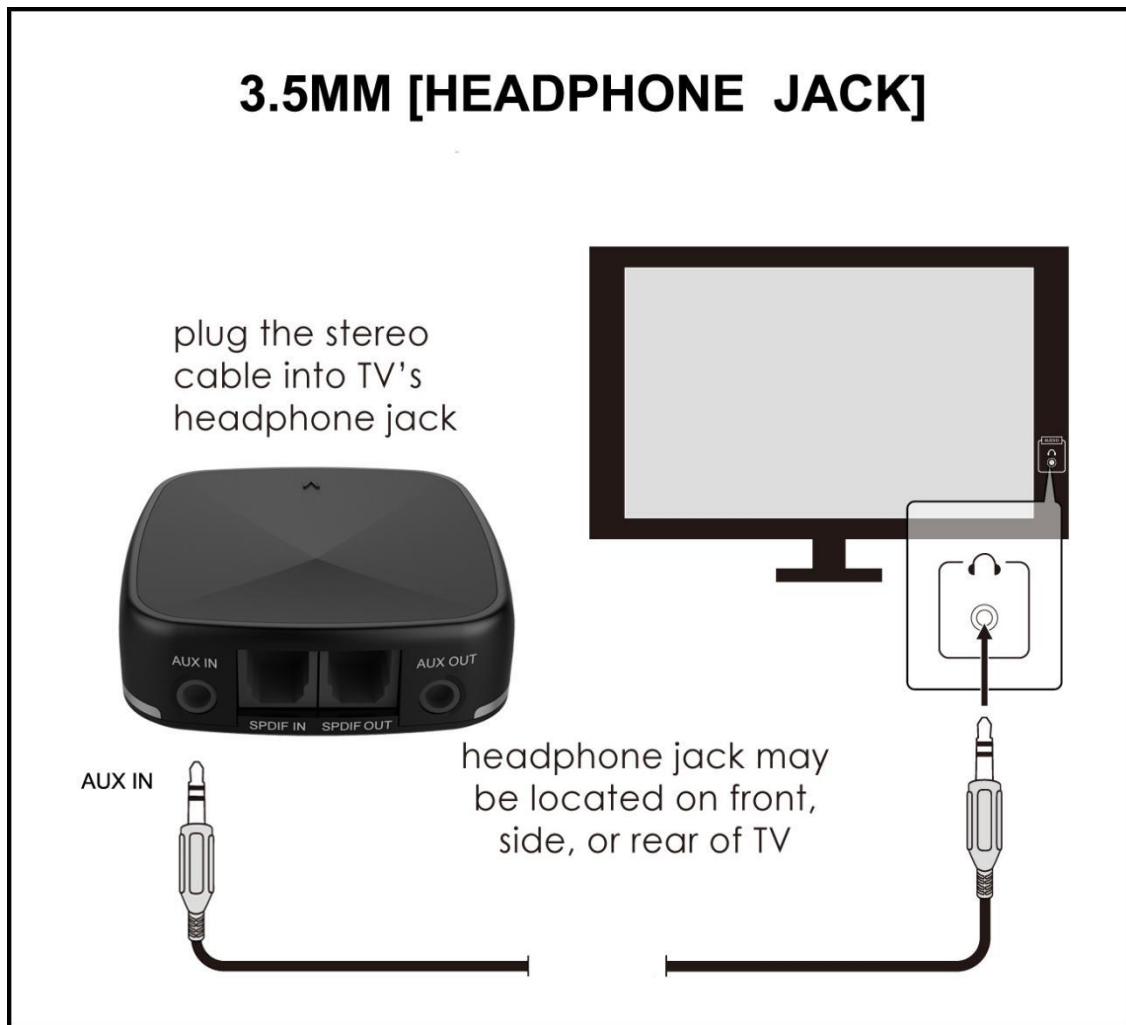select "Variable" in the audio output settings menu of your TV

SETTINGS

SOUND / AUDIO

ANALOG AUDIO OUT

FIXED

▶ VARIABLE
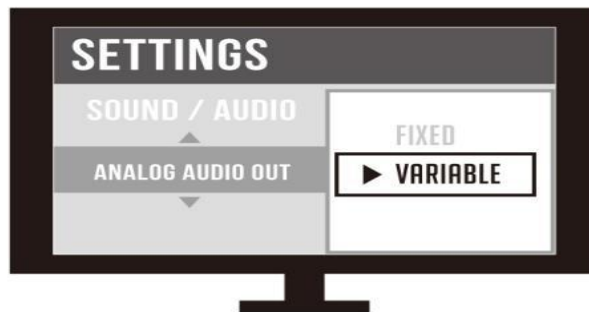
set TV's internal speakers to "OFF"

SETTINGS

SOUND / AUDIO

TV SPEAKERS

ON

▶ OFF

†**EXACT MENU AND ITEM NAMES MAY VARY BETWEEN TVS**

Option3: 3.5mm headphone jack

AS BLUETOOTH RECEIVER

JRBR03 is through toggle switch to select the model is transmitter or receiver mode . you

can switch to "RX" no matter it is power on or off.

Operation and LED Instruction

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In off state, press MFB around 2 seconds, Blue LED flashes twice,JRBR03 is powered

on.(after power on, it would enter into pairing mode quickly with Blue LED flashes if

JRBR03 did not connect with any device.)

2.Power off:

In on state, press MFB around 2 seconds, Red LED flashed twice, JRBR03 power off. Please

don't turn it on immediately after turning it off, since the voltage of the chipset may not disappear totally, please wait 3 seconds to re-power it on

3.Pairing mode:

Power on the unit, double click the MFB, the Blue Red LED flashes quickly to enter pairing mode.

4.Re-connect with the connected device

Power on the unit, JRBC03 will connect to the latest two connected devices automatically. after two connects successfully, JRBC03 will be two Blue LED lights on.

5.Re-connect status:

Blue LED flashes slowly

6.Pairing status:

Blue Red light flashes quickly used as Bluetooth transmitter status

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9.Pair A device status:

After one connects successfully,one Blue light on and another Blue will flash quickly to search another device, if it is not searched in 30 seconds, another Blue LED light off. Press double click MFB, another Blue LED flashes quickly and continue to search another device.

10.How to pair two devices:

In off state, press and hold MFB around 4 second, the Blue Red LED flashes quickly to enter into searing mode, if JRBC03 does not enter into pairing mode, press double click

MFB (keep the operation consistently)to enter into pairing mode. Make Two devices to enter into pairing mode. Two devices will be connected in 10-20 seconds.

11.Play/pause:

In music playing, short press MFB to pause, press again to play continually.

12.Interface switching:

In off state or working state, switch between AUX and SPDIF through the toggle switch.

While working as a Bluetooth receiver, JRBC03 also could connect with two Bluetooth devices, but only can play music from one of the Bluetooth device. If the two Bluetooth devices are playing music at the same time, it will play the music from the mobile phone which paired with it firstly.

PAIR WITH MOBILE PHONE OR IPAD

The connect includes two connection options.

Option 1: Digital optical audio input(TOSLINK)

AUX IN   SPDIF IN   SPDIF OUT   AUX OUT

AUDIO IN
OPTICAL

SPDIF OUT

Receiver Mode
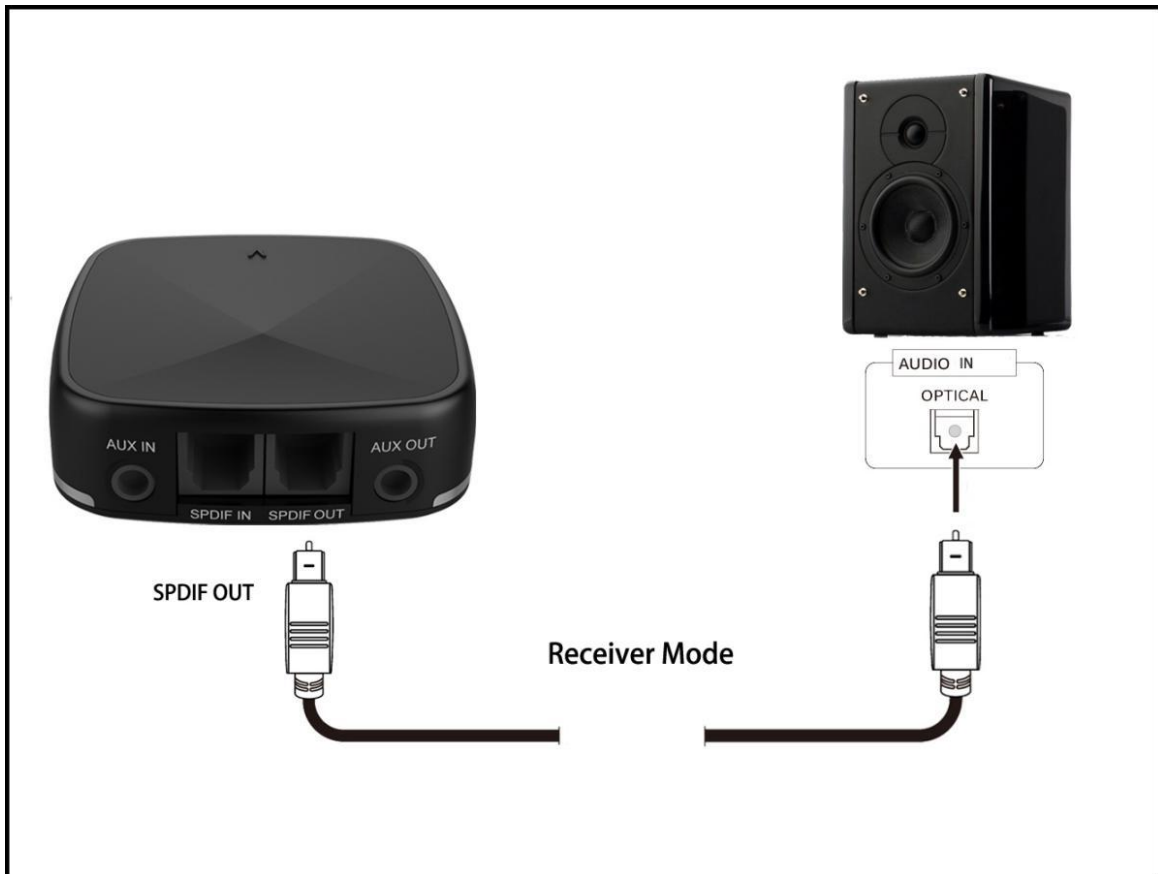
Option 2: 3.5mm headphone jack

AUX IN   SPDIF IN   SPDIF OUT   AUX OUT

AUX OUT

Receive Mode
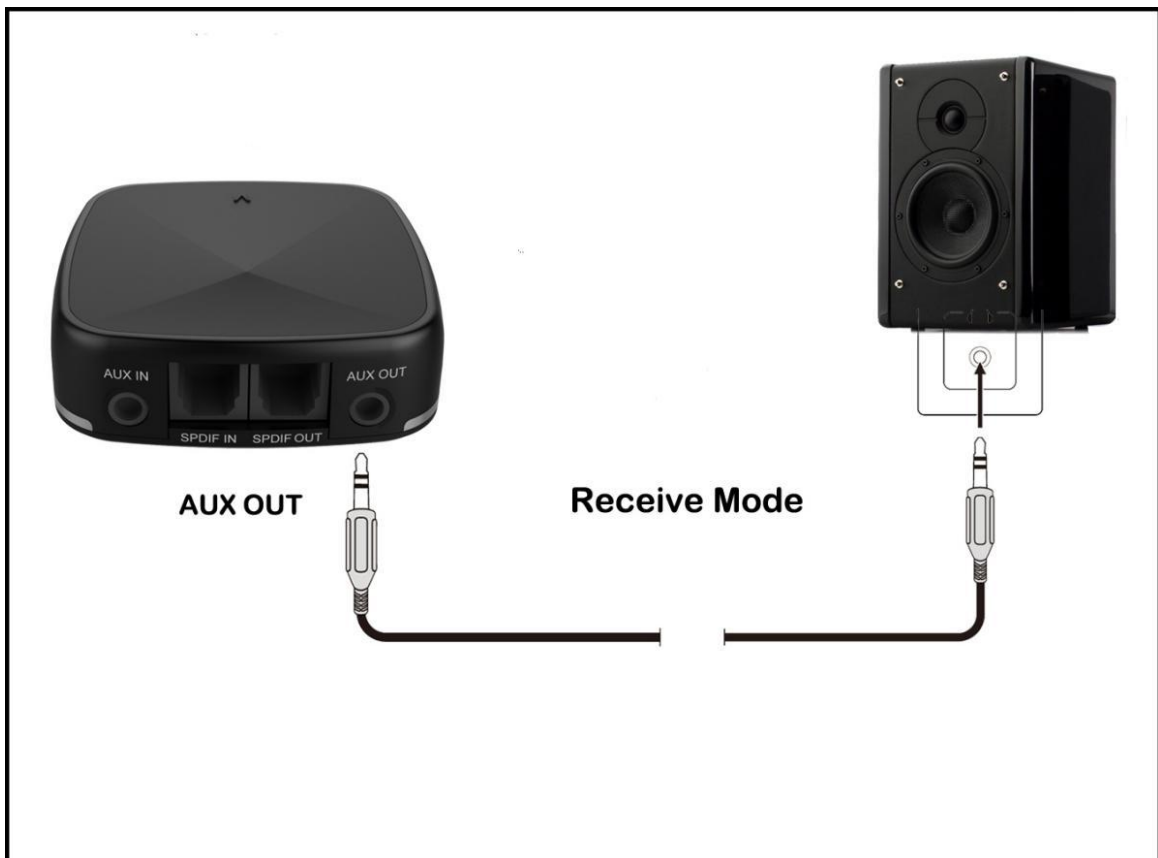
TIPS

1. Clear up the pairing list:

In off state, press and hold MFB for around 10 seconds, Blue and Red LED are on for 2 seconds, All the previous paired information will be cleared up.

2.First time charging:

Please fully charged the model JRBR03 before using

3.Power off automatically:

The JRBC03 will power off automatically when the battery voltages lower than 3.1V.

4.Charging in low power

When the red LED light flashes 5 times every minute.it indicates that the JRBR03 is in low battery mode and needs to be recharged(it is normal for the blue and red LED light overlap when using in low power and charging while working)

A, Connect the charging cable to the charging adapter(with USB output connector)or to the computer.

B. and then connect the Micro USB side to the JRBR03.

C, The red LED light on while charging, red LED off when fully charged.

D. the charging time takes about 2 hours.

5.JRBC03 working while charging

When need to use the JRBC03 for long time, due to the limited built-in battery usage time, it allowed to connect the charging power apply(DC 5V ≥300mA, when the battery is low or when the power supply of poor quality may cause the current sound appears)；operation steps:connect the charging power and then power on JRBC03,(because the chipset will reset operation when insert charging power supply, can resume normal use when JRBC03 software crashes), Note: it is not recommend to use this function while charging, otherwise it may affect battery life.

■Battery information

Your device is powered by a rechargeable battery. The full performance of a new battery is achieved only after two of three complete charge and discharge cycles. The battery can be charged and discharged hundreds of times, but it will eventually   wear out.

Do not leave a fully charged battery connected to acharger since overcharging may shorten battery lifetime.If leftunused, a fully charged battery will lose power with time past.Leaving the device in hot or cold places, such as in closed car insummer or winter conditions, will reduce the capacity andlifetime of the battery. Should always try to keep the battery between 15 ℃ and 25 ℃. Battery performance is particularly limited in temperatures well below freezing.Do not dispose of batteries in a fire as they may explode.Battery may also explode if damaged.

■Safety instruction

Your device is excellent produce in design and craft, should be used with caution.

The following suggestions will help you effectively use warranty service.

1. Keep the unit away from children

2. Maintain equipment dry, rain, moisture and all kinds of liquids

or moisture can contain minerals, corrode electronic circuit.

3. If the device is wet, please make it completely dry.

4. Do not use or put the devices in dust or dirt storage, it will damage the detachable parts and electronic components.

5. Do not use equipment stored in overheating, high temperature will shorten the service life of electronic devices, damage batteries, make some plastic part deformation or melt.

6. Do not use equipment stored in a cold place, or when the device temperature to

room temperature, its internal will form the moisture, it will destroy circuit board.

7. Do not attempt to disassemble the equipment.

8. Do not throw, beat or vibration equipment, rough treatment equipment can damage
   the internal circuit board and sophisticated structure.

9. Do not use strong chemicals, detergent or detergent to clean the device.

10. Do not use pigment daub equipment, daub will block sundries in the removable com
    ponents and thus affect the normal operation.

Note:

Don't stored JRBC03 alone for more than one month without working, it should

maintain charging one time every month if long time no working. It can prevents

built-in batteryuncontrolled excessive self-discharge phenomenon during storage.

Package content:

1*JRBC03

1* Digital Optical TOSLINK Cable

1*3.5mm audio cable

1*Charging cable

1*3.5mm Female to 2 RCA Male Cable

1*User manual

FCC Statement

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. 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 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.