BTI-020V Bluetooth transmitter and receiver all in one
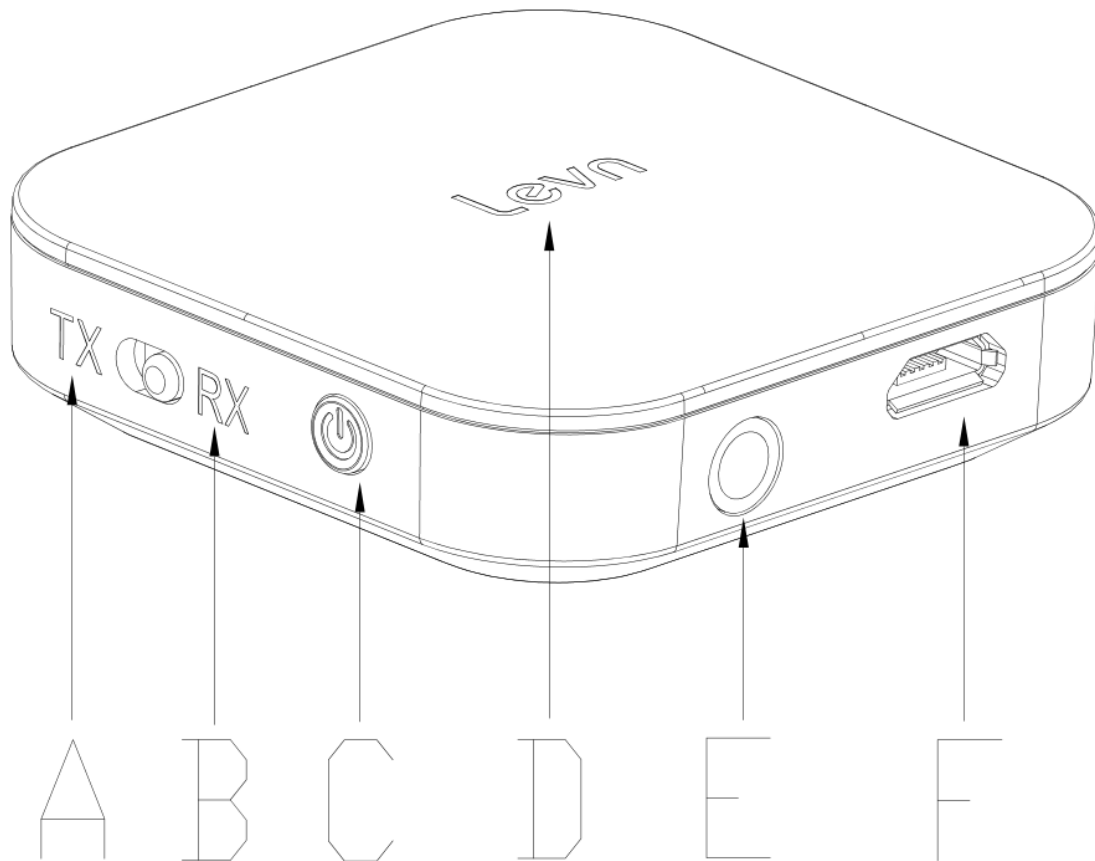
user manual

Welcome to use Bluetooth transmitter/ receiver BTI-020V.

➢ **Introduction**

BTI-020V is a Bluetooth transmitter and receiver all in one function adapter ,when used as a Bluetooth transmitter, it can transfer the music on your mobile ,Walkman,TV,computer ,etc to your Bluetooth receiver,Stereo Bluetooth headphone,and Bluetooth speakers ,ect ,through wireless technology. When used as a Bluetooth receiver, it can been a stereo Bluetooth headphone (by plugging headphone audio cable into 3.5mm port),or connecting with speaker to receive audio signal through wireless.

 Please read the user manual carefully before use the unit .

➢ Overview :

A, Bluetooth transmitter side

B, Bluetooth receiver side

C, Multi-function button

D, LED indicator

E, 3.5MM audio port (AUX)

F, Micro USB charging port

➢ **Specification:**

Model	BTI-020V
Bluetooth version	V4.1，ClassⅡ
Chipset	CSR BC8670
Frequency	2.402GHz-2.480GHz
Bluetooth receiver working time	Approx. 12 hours
Bluetooth transmitter working time	Approx. 13 hours
Full charging time	Approx. 2 hours
Bluetooth profile	A2DP
Supports (in Bluetooth transmitter mode)	If the Bluetooth device support the same CODEC, the transmitter could connect two Bluetooth speakers or two Bluetooth headsets simultaneously
Support dual connection in receiver mode	Support connecting with two mobile phone
Pass code for supported Bluetooth headset, Bluetooth receiver, Bluetooth speaker etc.	0000，1111，1234，8888
CODEC	Priority APT-X, Second SBC
APT-X tips	CODEC Single connection, priory support APT-X LL

	48kHZ CODEC (headset or speaker must also support APT-X); Two connections, it will switch to SBC CODEC automatically
Battery	250mAH rechargeable lithium battery
Charging supply	5VDC,100-240V AC adapter , ≥300MA
Working temperature	-10—55℃
Net weight	Approx. 18g
Dimension	43.8*43.8*12.4mm

➢ **Preparation before using**

1, Before going to use BTI-020V, please full charge BTI-020V ,Walkman, mobile, TV,Computer ,ect which support 3.5MM AUX devices.

➢ **Operation**

1, **BTI-020V charging:**

For the first using, please fully charged the model BTI-020V.

Please charge when in low battery:

When the device is in working mode, if the RED LED flashes three times continuously (not include Red LED flashes once for successfully connection), means the unit is working in low voltage, please charge the unit.

A, Please connect the charging cable to the adapter (USD output port) or computer

B, Then using Micro USB charging cable connecting with BTI-020V

C, In charging mode, Red LED on, will off when full charging

D, The entire charging time around 2 hours

➢ **Worked as a Bluetooth transmitter**

Function option for BTI-020V

Change different working mode through the Slide option button.

When the unit in off state, please slide the button to "TX" side, then press MFB to power on the unit, all the paired device information in RX mode will be deleted after power on.

Please don't switch TX or RX mode immediately in 3 seconds after unit turn off , because the unit is still having power, if switching to TX or RX mode immediately, it will enter into the previous power off mode to re-turn on .

- Note: when worked as the Bluetooth transmitter, it only could stay 4 device records and these devices will be taken over by the latest paired device.(Because the unit supports "automatically
- Re-connection " function,if staying too much devices record, the re-pairing time will be lasting longer).

BTI-020V automatically Re-connection time :

In 7 seconds for the unit has 1 paired record

In 12 seconds for the unit has 2 paired records

In 17 seconds for the unit has 3 paired records

In 22 seconds for the unit has 4 paired records

Basic operation

1. power on :

In off state, press MFB around 3 seconds, Blue LED flashes twice, BTI-020V is powered on. (If BTI-020V did not connect with any device, it could enter into pairing mode quickly with Blue LED flashes after power on)

2. Power off :

In on state, press MFB around 3 seconds, Red LED flashes twice (if release after Red LED immediately, Red LED may only flashes once), BTI-020V power off. Please re-power on the unit after power off the unit 3 seconds later since the voltage of the chipset may not disappear totally.

3. Pairing mode :

Power on the unit, double click the MFB, the Blue LED flashes quickly to enter pairing mode, it will be in connective standby mode if no connections in 2 minutes.

4. Clear up the pairing list :

Power off with the current working mode(TX or RX), 3 seconds later, switch to the other working mode, then power on, the pairing information for the former mode will be cleared up.

5. Connect with all the connected device:

Power on the unit (using two connections simultaneously), short press MFB to connect all the connected device automatically, but it only support two devices connection simultaneously, prioritize the latest two connected devices, successfully connected, BTI-020V is solid blue. If BTI-020V could not connect with any device in 22 seconds (This is up to how many paired device BTI-020V stored), it will enter into pairing mode. When used as Bluetooth transmitter, it support two connected devices transfer Audio simultaneously.

6. Power off automatically

The BTI-020V will power off automatically when the battery voltages lower than 3.1V.

7. LED indicator in transmitter mode :

Power on	Blue LED flashes twice quickly
Pairing	Blue LED flashes quickly
Unconnected standby mode	Blue LED flashes once every second
Connected standby mode	Solid Blue LED
Low voltage	Red LED flashes quickly
Charging	Solid Red
Fully charged	Red LED turns off

➢ **BTI-020V Working as a Bluetooth receiver**

➢ **Switch the TX or RX button to chose the unit in Bluetooth transmitter mode ,or in Bluetooth receiver mode.**

When in power off state,switch the button to RX side, then long press MFB button to turn on it, all the paired devices record will be cleared. Please don't switch TX or RX mode immediately in 3 seconds after unit

turn off , because the unit is still having power, if switching to TX or RX mode immediately, it will enter into the previous power off mode to re-turn on

➢ **BTI-020V worked as Bluetooth Receiver can stay 8 paired devices record , the latest paired records will take over the over paired records.**

1. Power on:

In off state, long press MFB around 3 seconds, after Blue LED flashes twice, BTI-020V is powered on. (If BTI-020V did not connect with any device, it could directly enter into pairing mode automatically after power on)

2. Power off：

In on state, long press MFB around 3 seconds, Red LED flashes twice (if release after Red LED on immediately, Red LED may only flashes once), BTI-020V is powered off. Please don't re-power on the unit immediately in 3 seconds after power off the unit , because the voltage of the chipset may not disappear totally.

3. Pairing mode:

Power on the unit, double click the MFB, Blue & Red LED flashes alternately, the unit enter into pairing mode, it will power off automatically if no connections in 6 minutes.

4. Play /pause :

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

5. Clear up the pairing list :

Power off with the current working mode, 3 seconds later, change to the other working mode, then power on, the pairing information for the former mode will be cleared up

6. Connect with all the connected device:

Power on the unit, BTI-020V will connect to all the connected device automatically, but it only support two connections simultaneously, prioritize the latest two connected devices, after two connections successful, BTI-020V will be Blue LED light on. (working as Bluetooth reciever, it only could receive audio from the first working device ,If you want to receive signal from the other device, the first working device must have to be pause or turn off . (Bluetooth receiver two in one function).

7. Power off automatically :

The BTI-020V will power off automatically when the battery voltages lower than 3.1V or no connections around 5 minutes .

8. Using while charging :

When you want to use BTI-020V continuously, however the limited battery capacity, you could use the unit while charging.(DC 5V ≥300Ma, if the battery voltage is too low, or the power suppler is poor, it may have current noise.)

Please connect the unit to the power supply firstly, then power on the BTI-020V.(The chipset will reset momentarily when connecting with power supply, this also could work when the unit is dead). Do not use the unit while charging because it may shorten the battery's life time.

9. LED indicator in Receiver mode :

Power on	Blue LED flashes twice quickly
Pairing	Blue and Red LED flashes alternately
Unconnected standby mode	Blue LED flashes twice every three seconds
Connected standby mode	Solid Blue LED
Low voltage	Red LED flashes quickly
Charging	Solid Red
Fully charged	Red LED turns off

➢ **How to use it as a Bluetooth transmitter**

BTI-020V and stereo Bluetooth headphone or Bluetooth speaker (A2DP enabled) work on the TV

A, Make the Bluetooth speaker or Bluetooth headset in pairing mode.

B. Press MFB around 3 seconds until Blue LED flashes quickly to enter into searing mode, if BTI-020V does not enter into pairing mode, press MFB 2 Seconds then double press MFB (keep the operation consistently) to enter into pairing mode.

C. Put the BTI-020V and Bluetooth speaker or Bluetooth headset together, around 30s seconds later, BTI-020V will connect with Bluetooth speaker or Bluetooth headset automatically

D. Connect the BTI-020V and TV with 3.5mm audio cable. (Plug one side of the audio cable to the audio output jack of the TV, the side to BTI-020V)

E. It could hear the sound coming from TV in the Bluetooth headset or Bluetooth speaker. If no sound in the Bluetooth speaker or Bluetooth headset, please check the aux output setting on TV is by the headset output, the volume of the TV is loud enough, the cable connects right or not. Use your finger to touch the DC part of the audio cable that connected with BTI-020V to check if the audio source has problems. When the connection is successful and the volume of headset or speaker is big enough, you will hear a "zi,zi" sound, it means BTI-020V and Bluetooth speaker or Bluetooth headphone and cables are ok, the problem may be on the audio source (TV) .

BTI-020V and Bluetooth headset or Bluetooth speaker which must support A2DP work together on the computer.

A. Make the Bluetooth speaker or Bluetooth headset in pairing mode.

B. Press MFB around 3 seconds until Blue LED flashes quickly to enter into pairing mode, if BTI-020V does not enter into pairing mode, press MFB 2 Seconds then double press MFB (keep the action consistently)) to enter into pairing mode.

C. Put the BTI-020V and Bluetooth speaker or Bluetooth headphone together, around 30 seconds later, BTI-020V will connect with Bluetooth speaker or Bluetooth headphone automatically.

D. Connect the BTI-020V and computer with 3.5mm audio cable.

E. It could hear the sound coming from computer in the Bluetooth headset or Bluetooth speaker. If no sound in the Bluetooth speaker or Bluetooth headset, please check the aux output setting on computer is by the headset output, the volume of the computer is loud enough, the cable connects right or not. Use your hands to touch the plug of the audio cable for BTI-020V to check if the audio source has problems. When the connection is

successful and the volume of headset or speaker is big enough, you will hear a "zi,zi" sound, it means BTI-020V and Bluetooth speaker or Bluetooth headphone and cables are ok, the problem may be on the computer.

Note: Passcode for supported Bluetooth headset, Bluetooth receiver, Bluetooth speaker etc. is "0000","1234","1111","8888"

BTI-020V and Bluetooth headset or Bluetooth speaker that supported A2DP worked on other audio device which supports headset profile). BTI-020V and Bluetooth headset or Bluetooth speaker could replace a wired earphone from wired connection to wireless connection, remove the wire limited, bring more fun for you.

➢   **BTI-020V connect with two device simultaneously while working as a Bluetooth transmitter**

This unit could connect with two stereo Bluetooth speaker or Bluetooth headset to play music simultaneously

A. Named the two Bluetooth headsets or two Bluetooth speakers as A and B.

B. Select the TR mode for the device BTI-020V

C. Follow the above pairing steps in working as a Bluetooth transmitter to connect device A and BTI-020V

D. When the connection is successful, power off the device A, and pairing the Device B with BTI-020V (following the same paring steps)

E. After successfully connecting with device B, then power off BTI-020V.

F. Power on the device A (do not enter into pairing mode, but if it enters into pairing mode, it's ok), around 10-20 seconds later (in this case, most of the Bluetooth speaker is for automatically connection, please wait a moment)

Then power on the BTI-020V (no need to enter into pairing mode), it will search and connect with device A and B automatically, the pairing time will take around 30 seconds. Then connect to audio resource to check if the two devices could play simultaneously. If not, please power off BTI-020V, and reopen BTI-020V to connect with device A and B.

If reopen BTI-020V does not work, please rework the steps for two connections simultaneously.

The compatibility testing report for BTI-020V worked as Bluetooth transmitter to connect with two device simultaneously

1. Due to different Bluetooth chipset has different function firmware setting and different operations so some Bluetooth speaker or Bluetooth headset may have compatible problems with BTI-020V. When one of the devices has no sound or discontinuous playing, please re-pair the two devices two or three times to check if there has same situation, then we could have a result if it is wrong in compatibility

2. There so many Bluetooth speaker, Bluetooth headphone with different Bluetooth chipset on the market. We tested the different Bluetooth chipset compatibility with BTI-020V:

Bluetooth transmitter	Chipset for device A	Chipst for device B	result
BTI-020V	CSR 8635	CSR 8635	pass
BTI-020V	CSR 8635	CSR 8645	pass
BTI-020V	CSR 8635	CSR 8610	pass
BTI-020V	CSR BC57E687C	CSR 8635	pass
BTI-020V	CSR BC57F687A05	CSR 8635	pass
BTI-020V	CSR 8635	CSR 8640	pass
BTI-020V	CSR 8635	ISSC1681S	pass
BTI-020V	CSR 8635	WS9623	pass
BTI-020V	CSR 8635	BK 8006	pass

BTI-020V	CSR 8645	CSR 8645	pass
BTI-020V	CSR 8610	CSR 8645	pass
BTI-020V	CSR BC57F687A05	CSR 8645	pass
BTI-020V	CSR 8645	CSR 8640	pass
BTI-020V	ISSC1681S	CSR BC8645	pass
BTI-020V	CSR BC57E687C	CSR 8645	pass
BTI-020V	CSR BC8635	CSR 8645	pass
BTI-020V	WS9623	CSR 8645	pass
BTI-020V	CSR 8645	BK 8006	pass
BTI-020V	CSR 8610	CSR 8610	pass
BTI-020V	CSR BC57E687C	CSR 8610	pass
BTI-020V	CSR 8640	CSR 8610	pass
BTI-020V	ISSC1681S	CSR 8610	pass
BTI-020V	BC57F687A05	CSR 8610	pass
BTI-020V	WS9623	CSR 8610	pass
BTI-020V	BK 8006	CSR 8610	pass
BTI-020V	CSR BC57E687C	CSR 8640	pass
BTI-020V	CSR 8640	CSR 8640	pass
BTI-020V	CSR BC57F687A05	CSR 8640	pass
BTI-020V	WS9623	CSR 8640	pass
BTI-020V	ISSC1681S	CSR 8640	pass
BTI-020V	BK 8006	CSR 8640	pass
BTI-020V	CSR BC57F687A05	CSR BC57F687A05	pass
BTI-020V	CSR BC57F687A05	CSR BC57E687C	pass
BTI-020V	CSR BC57F687A05	ISSC1681S	pass
BTI-020V	CSR BC57F687A05	WS9623	pass
BTI-020V	CSR BC57F687A05	BK 8006	pass
BTI-020V	ISSC1681S	WS9623	pass
BTI-020V	ISSC1681S	ISSC1681S	pass
BTI-020V	ISSC1681S	BK 8006	pass
BTI-020V	BK 8006	BK 8006	pass
BTI-020V	CSR BC57E687C	CSR BC57E687C	pass
BTI-020V	CSR BC57E687C	WS9623	pass

BTI-020V	CSR BC57E687C	ISSC1681S	pass
BTI-020V	CSR BC57E687C	BK 8006	pass
BTI-020V	WS9623	WS9623	pass
BTI-020V	WS9623	BK 8006	pass

➢ **BTI-020V connect with two device simultaneously while working as a Bluetooth receiver**

BTI-020V could connect with two mobile phone simultaneously (but could not play music from two mobile phone at the same time. you could choose any mobile phone to play music, but it need to pause or end the music from other mobile phone)

A. Named the two mobile phone as A and B.

B. Following the pairing steps to connect A with BTI-020V, after successful connection, please switch off the Bluetooth of the mobile A. Double click MFB of BTI-020V to enter into pairing mode.

C. Connect mobile B with BTI-020V. After successfully connection, power off BTI-020V. Switch on the Bluetooth of mobile A ,and the power on BTI-020V, around 30 seconds BTI-020V and the two mobile phones will connect automatically.

➢ Packaging list

BTI-020V	1PC
Audio cable	1PC
USB charging cable	1PC
User manual	1PC

➢ Tips for pairing：

1. Put the Bluetooth headset or Bluetooth speaker into pairing mode. Then power on BTI-020V will connect to BTI-020V quickly again,if the Bluetooth headset or Bluetooth speaker connected with BTI-020V before. No need to make the BTI-020V enter into pairing mode.

2. If BTI-020V did not connect with the Bluetooth headset or speaker more than 1 minutes. Please try to dear up the pairing list of the BTI-020V. If the Bluetooth headset or Bluetooth speaker connected with BTI-020V before, please reopen the BTI-020V after dear up the pairing list.

➢ 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 a charger since overcharging may shorten battery lifetime. If left unused, a fully charged battery will lose power with time past. Leaving the device in hot or cold places, such as in closed car in summer or winter conditions , will reduce the capacity and lifetime 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 parts 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 components and thus affect the normal operation.

➢ Environmentally friendly disposal

Old electrical appliances must not be disposed of together with the residual waste, but have to be disposed of separately. The disposal at the communal collecting point via private persons is for free. The owner of old appliances is responsible to bring the appliances to these collecting points or to similar collection points. With this little personal effort, you contribute to recycle valuable raw materials and the treatment of toxic substances.

Caution

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

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

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.

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.