

BTC020

Bluetooth FM transmitter

User's manual



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Welcome to use this Bluetooth FM transmitter BTC020. Please read this user manual carefully before using it.

■ Before use

1. About BTC020

BTC020 is a Bluetooth hands-free car kit with a Bluetooth stereo receiver and built-in FM transmitter. It also has a DC 5V USB Charging socket to power or charge other devices. With BTC020 you can make calls freely and listen to your music. BTC020 has the following features:

i. Bluetooth hands-free car kit—Pair with a Bluetooth cell phone or PDA supporting HFP:

- ◆ Answer call, end call and reject call
- ◆ Redial last number
- ◆ Voice dial

ii. Bluetooth stereo receiver—Pair with a Bluetooth cell phone or Bluetooth transmitter supporting A2DP:

- ◆ Enjoy music wirelessly
- ◆ Adjust volume
- ◆ Remote control pause/play
- ◆ Remote control previous/next song

iii. FM transmitter—Transmit calls or music to the car's FM radio:

- ◆ Transmit calls or music to the car's FM radio
- ◆ Adjust FM frequency

iv. Line in and Line out

- ◆ Line in—Transmit stereo music to BTC020 from a music player with 3.5mm audio cable
- ◆ Line out—Transmit calls or stereo music from BTC020 to the car's stereo system with 3.5mm audio cable

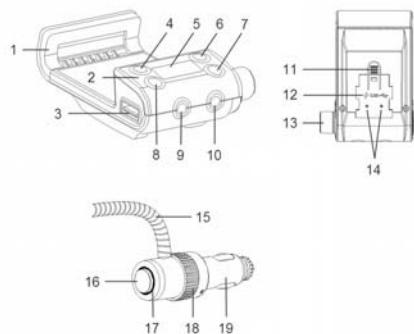
v. USB charging socket

BTC020 has a USB charging socket which provides DC 5V voltage for powering and charging other devices.

vi. In-car holder

BTC020 has a flexible holder for holding cell phone, so you can operate phone easily on driving.

2. Overview



1	Flexible holder	11	Connecting slot
2	Microphone	12	USB function switch
3	USB outlet	13	Knob button
4	button(Green LED)	14	Power point (DC12V)
5	LED display	15	Flexible gooseneck
6	button (Red LED)	16	Power switch
7	button	17	Power LED indicator
8	button	18	Cigarette adaptor knob
9	Line in	19	Cigarette adaptor
10	Line out		

3. Prepare before use

i. Connect the flexible gooseneck cigarette adaptor with the main body of BTC020.

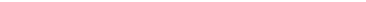
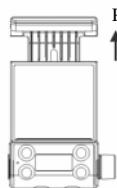
ii. As the following pictures show: put the cigarette lighter plug into the car cigarette socket, and adjust the knob on cigarette adaptor to secure the adaptor.



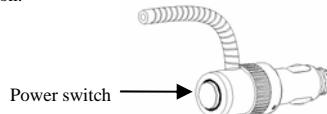
OR



iii. Adjust the car holder to secure your phone.



iv. Press the power switch on cigarette adaptor to activate BTC020, and the indicator light will on.



v. Blend the gooseneck and make it face to the user.



■ Getting use

1. Pairing and connecting with Bluetooth cell phone

For the first use, you should pair BTC020 with your cell phone. Please make sure your cell phone is Bluetooth-enabled. Specific pairing steps may vary with different models of cell phones. Please refer to your cell phone's user's manual for further information.

The general pairing steps are as follows:

- a) Keep BTC020 and your Bluetooth cell phone within 1 meter when pairing;
- b) Long press BTC020  for 2 seconds till red and blue light flash alternately;
- c) Activate your cell phone's Bluetooth function and search for Bluetooth devices. After the search is completed, select "BTC020" from the Bluetooth device list;
- d) According to the indication, enter password or PIN No:"0000", and press "Yes" or "confirm";
- e) After successful pairing select "BTC020" from the Bluetooth device list and press "connect". After successful connecting, red and green LED will on.



Remarks:

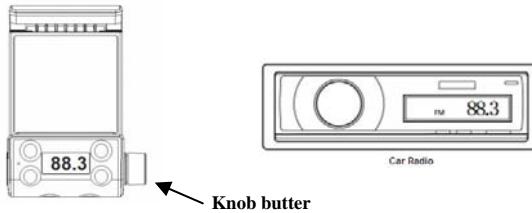
- ◆ Pairing mode will last 2 minutes. If no devices can be connected within 2 minutes, BTC020 will return back to standby mode. If you want to repair, please turn off BTC020 first and then enter pairing mode again.
- ◆ After successful pairing, BTC020 and the Bluetooth cell phone will remember each other, BTC020 will not need to re-pair with the Bluetooth cell phone next time unless the pairing information is deleted because of a new pairing.
- ◆ Every time BTC020 is turned on, it will connect to last connected devices automatically.
- ◆ Under the status of standby mode, and non-connected with devices, short press  once, BTC020 will connect with last connected device.

2. Adjusting FM frequency

- 1) Short press knob button once, BTC020 enter frequency adjustable mode and the display will flash. Please rotate the knob until the frequency on BTC020 is same as car radio.
- 2) Auto-search function: Long press knob button for 2 seconds and release it until the display show '----'. BTC020 will auto-search an empty station.

Remark:

BTC020 will remember and show last used frequency automatically after turn on.

**3. Playing music**

After setting up follow the above steps, you can play music from phone to car radio via BTC020.

Function	Status of BTC020	Operation
Adjust volume	Playing music	Rotate knob butter (Adjustable volume from 0 to 15)
Last song	Playing music	Short press 
Next song	Playing music	Short press 
Pause music	Playing music	Short press 
Play music	Pause music	Short press 

4. Making call

Please make sure BTC020 has already connected with cell phone. For the best effect on making call, please make sure the microphone of BTC020 is face to user.

Function	Status of BTC020	Operation
Answer call	Incoming call	Short press 
Reject call	Incoming call	Short press 
End call	During a call	Short press 
Adjust volume	During a call	Rotate knob butter

5. The operation of BTC020

Adjust FM frequency			
Function	Current status of BTC020	Operation	LED Display
Adjust frequency	Turn on	1) Short press knob button once, BTC020 enter frequency adjustable mode and the LED display flash 2) Rotate knob button to adjust frequency. As the right picture show: frequency is 107.9MHz. 3) Short press knob button once, exit frequency adjustable mode. Besides, it will exit frequency adjustable mode automatically if you not rotate the knob button over some times	
Search empty station	Turn on	Long press knob button for 2~3 seconds and release it till '-----' as right picture. BTC020 will search an empty station automatically.	
Music			
Function	Current status of BTC020	Operation	LED display
Last song	Playing music	Short press  once	
Next song	Playing music	Short press  once	
Pause	Playing music	Short press  once	
Play	Pause	Short press  once	
Adjust volume	Playing music	Rotate knob button (Adjustable volume from 0 to 15)	

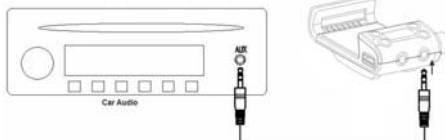
Make call			
Function	Current status of BTC020	Operation	LED display
Answer call	Incoming ring	Short press  once	
Reject call	Incoming ring	Short press  once	
Adjust volume	During a call	Rotate knob button	
End call	During a call	Short press  once	
Redial last number	Connected with cell phone	Short press  twice continuously	
Voice dial	Connected with cell phone	Long press  twice	

Remarks:

- ◆ Only BTC020 has already connected with device, you can adjust volume when it playing music.
- ◆ Only your cell phone support AVRCP profile, you can use Remote control function (last song/next song/pause/play).
- ◆ Not all cell phones support all functions listed above. Please refer to your cell phone's user's manual for further information

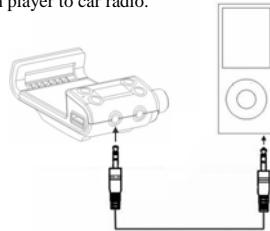
6. Line out

This product has Line out function. You can transmit the audio (music/call) to car stereo system via Line out. When you use Line out, BTC020 will turn off FM transmit automatically.

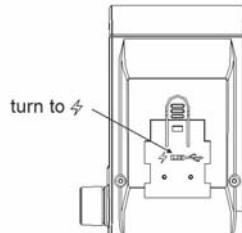


7. Line in

This product has [Line in](#) function. If your player has Line out jack, you can transmit music from player to car radio.

**8. Charging for portable device**

This product has charge output jack (DC5V/1A). You can charge for portable device. Before use, please turn the USB function switch on the base as following picture:

**9. Factory Reset**

In the status of turned off, press **◀** and **▶** button for 6 seconds simultaneously. BTC020 will delete all paired list and the FM frequency also restore factory setting. Turn off BTC020, and turn on again, it will enter Bluetooth pairing mode automatically.

10. LED Indicator

Operation or status	LED indicator
Pairing mode	Green LED of  and red LED of  flash alternately
Connected with Bluetooth device	Green LED of  flash once every 2 seconds
Non-connected with Bluetooth device	Green LED of  and red LED of  on

Remark:

After BTC020 is turned on,  and  will on all the time. Please note that the above LED indicator is only for  and  button.

■ Care and maintenance

Read the following recommendations before using BTC020. Following these you will be able to enjoy our product for many years.

- ◆ Keep it dry and don't take it to damp places to avoid the product's internal circuit being affected.
- ◆ Keep the product away from direct sunlight or hot places. High temperatures will shorten the life of electronic devices. Don't expose the product to cold areas. It may damage the internal circuit board.
- ◆ Don't try to disassemble the product as it may get damaged if you are not professional.
- ◆ Don't let it fall down onto the floor or other hard surfaces. The internal circuit might get damaged.
- ◆ Don't use intensive chemical products or detergent to clean the product.
- ◆ Don't scratch the surface with sharp things.

In case the product doesn't function properly, send it to the store you bought it. The staff will help you to solve the problem.

■ FAQs

- 1. Why is the sound coming from my car's FM radio noisy?**
 - a) Please make sure your car's FM radio has been set to an unused frequency;
 - b) Ensure both BTC020 and your car's FM radio use the same frequency;
 - c) Please make sure BTC020 is in the effective working range.
- 2. Why can't BTC020 be paired with a Bluetooth device?**
 - a) Please make sure BTC020 is in pairing mode;
 - b) Ensure BTC020 is in the effective working range.
- 3. Why can't music be played when connected to a Bluetooth cell phone?**
 - a) Please make sure your Bluetooth cell phone supports A2DP;
 - b) Ensure BTC020 is in the effective working range.
- 4. Why can't pause, play, previous song and next song be controlled from BTC020 during music playback?**
 - a) This function need the paired device support AVRCP (Audio/Video Remote Control Profile)
 - b) When you use Line in, BTC020 can not remote control.
- 5. Why can't adjust volume?**
 - a) You can adjust volume only the BTC020 has already connected with Bluetooth device and it is playing music or making call.
 - b) When you use Line in, BTC020 can not adjust volume.

■ Specifications

Bluetooth version	Bluetooth V2.1+EDR
Bluetooth profiles	HSP, HFP, A2DP and AVRCP
FM frequency range	88.1-107.9MHz
Bluetooth range	Up to 10M
Power supply	DC 12V-24V —— 1A
USB output	DC 5.0V —— 2.1A
Working temperature	-20~55°C
Storage temperature	-20~60°C
Dimensions	90×65×208mm
Weight	143g

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Notes:

- 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, and (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.