



FreedConn BM2-S Bluetooth Intercom Device for Helmets User Manual

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FreedConn BM2-S Bluetooth Intercom Device for Helmets



Product Information

Specifications

- **Product:** Bluetooth Intercom Device for Helmets
- **Model:** BM2-S
- **Charger:** 5V/1A charger recommended

Product Usage Instructions

Safety Tips

When using the FreedConn helmet headset, be aware that it may reduce your ability to hear ambient sounds. Prolonged exposure to loud music can lead to hearing damage. Maintain a distance of 2mm between the headset and your ears for optimal sound quality.

Parts List

- Helmet x1
- Helmet Bag x1
- Main Engine Box x1
- Drag hook x1
- USB Cable x1
- Manual x1

Bluetooth Receiver Installation Steps

Uncover the top cloth on the main engine following the steps in the picture.

Functional Panel Control of the BT Receiver

- Reset key
- BM2-S module
- Control button
- Headset microphone
- Charging Port
- Cover of the charging port
- Indicator light – Turn counterclockwise: volume down/previous song/previous channel, Turn clockwise: volume up/next song/next channel
- Power button/Multi-function button/Rotary knob button

Basic Operation

Function	Button	Operation
Power On	Press and hold the on/off button for 3 seconds	Voice prompt: Welcome to use FreedConn products, Blue light flashes quickly then slowly

FAQ

- **Q: What charger should I use to charge the product?**

A: It is recommended to use a 5V/1A charger specifically for FreedConn products to avoid damage.

- **Q: How far should I keep the headset from my ears for the best sound quality?**

A: Maintain a distance of approximately 2mm between the headset and your ears.

First-time use, please charge first

To ensure the performance of the product is not damaged, Please use a 5V/1A charger but not other charging wires to charge Freedconn products.

Welcome

Thank you for choosing the FreedConn Helmet Bluetooth® intercom system. FreedConn integrates communication products, creates a new concept of “Freedom and fashion”, and creates a fashionable helmet headset brand targeting at consumers in the new era. With high-quality communication products and innovative technologies, FreedConn brings a brand-new cycling communication experience to young urban users who pursue a free and fashionable lifestyle. With the brand spirit of “born free” as a starting point, each product has gone through more than twenty rigorous testing procedures, only to build the ultimate cost-effective outdoor cycling communication equipment. During healthy, happy, free, natural cycling, the tonality of cycling, the harmony of products and fashionable looks are well concerned, and with a reasonable price, it aims for “Freedom without burden”.

FreedConn has become the synonym of “cycling”, “freedom” and “fashion”, explaining the brand concept of “free fashionable cyclists”. By purchasing FreedConn products, you will get the most intimate protection and the most carefree after-sales service. All the products we bring you are manufactured under the highest standards of performance and safety, and we offer a 2-year warranty as part of our philosophy of customer service and customer satisfaction. We hope you can enjoy our products for many years.

Safety tip:

Wearing a FreedConn helmet headset while riding will reduce the ability of your ears to listen to ambient sounds. Long-term exposure to music at maximum volume, in addition to temporary adaptation, can lead to a loss of the ability to hear soft sounds or even can lead to permanent hearing damage.

Tips:

In order to get the best sound quality experience, it is recommended that the distance between the headset and your ears be kept within 2 mm.

Product Functions Introduction

- Radio Function
- Activate Voice Assistant
- Connect with 2 mobile phones
- Voice Prompt
- Bluetooth Intercom
- Support to connect with most devices from other Bluetooth brands
- Support to connect with most smartphones, MP3 players and GPS navigation systems.

Parts List



① Helmet*1



② Helmet Bag*1



③ Main Engine Box*1



④ Drag hook*1



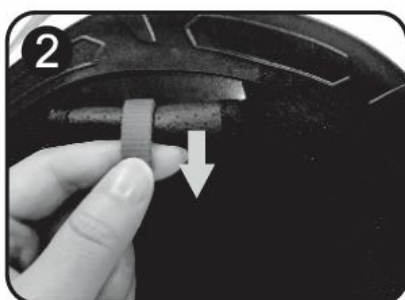
⑤ USB Cable*1



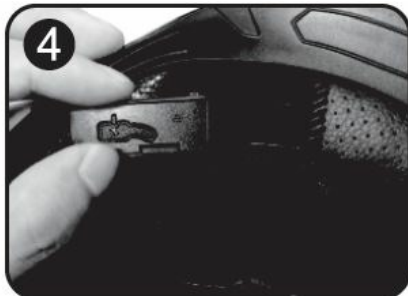
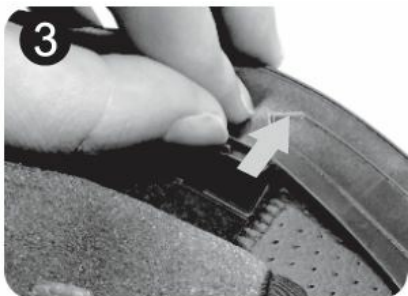
⑥ Manual *1

Bluetooth Receiver Installation Steps

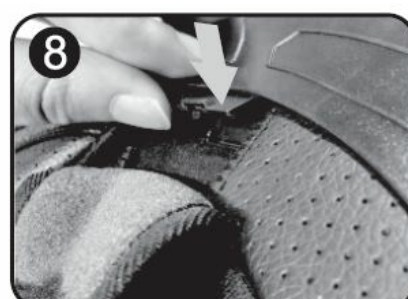
1. Uncover the top cloth on the main engine following the steps in the picture.
2. Put the helmet upside down (to avoid scratching the helmet, please put a piece of cloth under it).



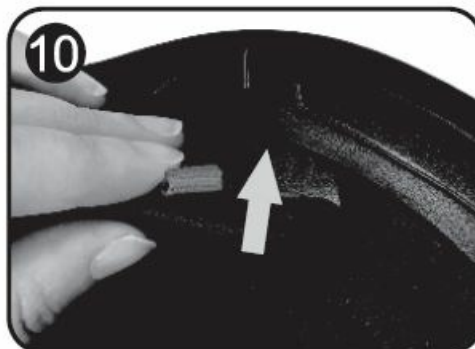
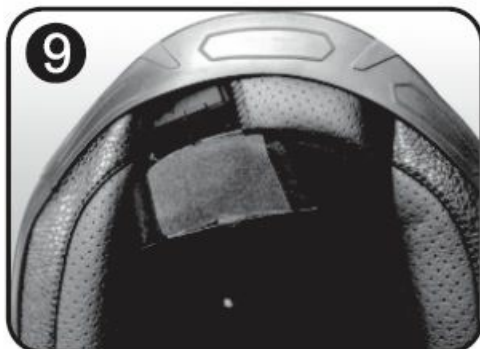
3. Open the cover plate of the main engine box along the direction of the arrow in the picture.
4. Take off the cover plate of the main engine.
5. Take out the main engine from the component box.



6. With the pin side down and the charging hole on the left, plug the main engine to the main engine box.
7. Install the main engine properly so that the pins of the main engine are fully contacting the female jack in the main engine box.
8. After installing the main engine, align the pin of the cover plate with the corresponding empty position in the main engine box and press it in.

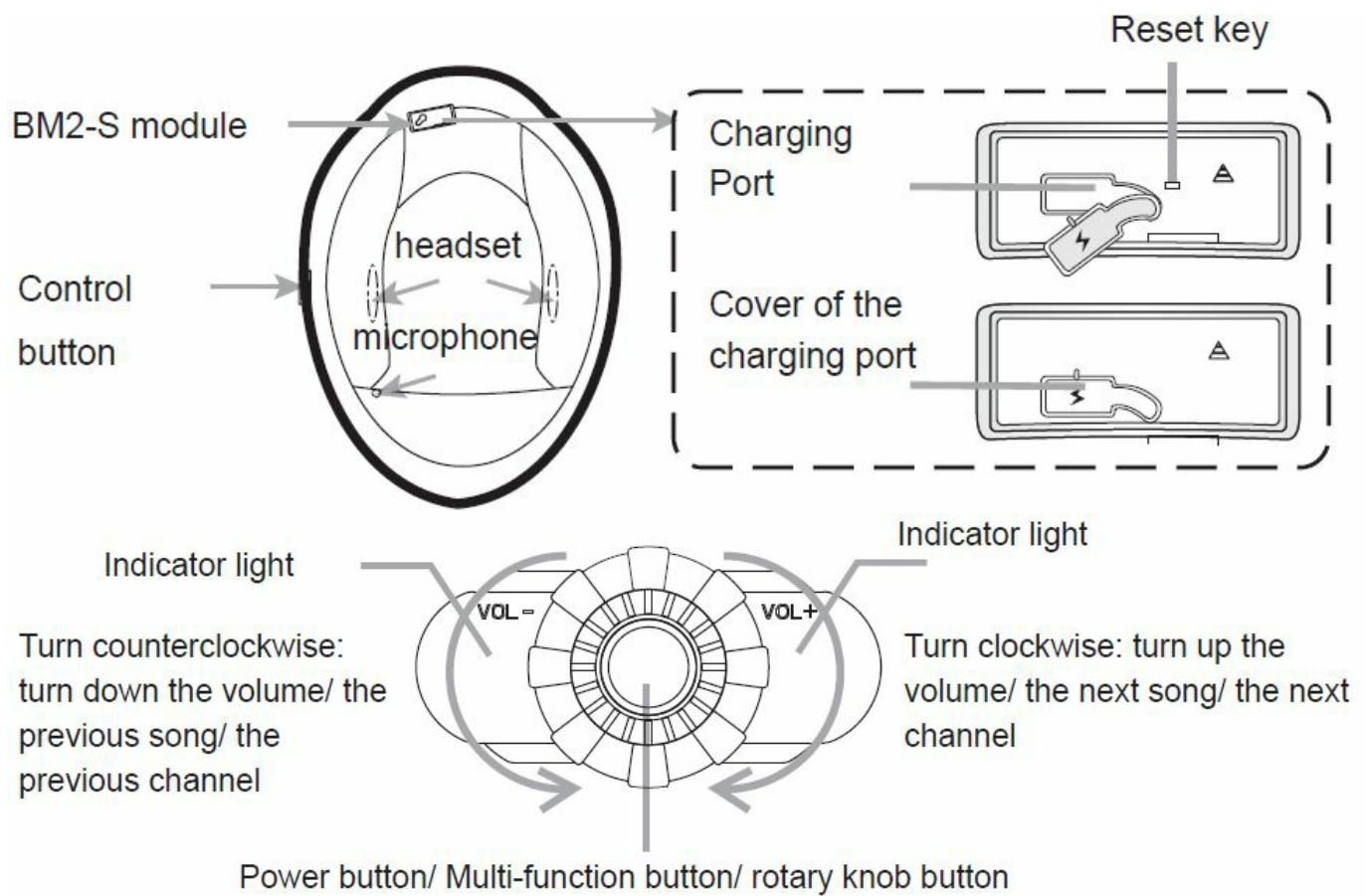


9. Complete the installation of the main engine cover plate.
10. Open a gap on the left headset, insert the cover cloth into the gap and close it up.

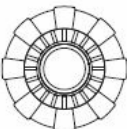


Please follow the steps in the pictures to install the main engine: You must install following the direction of the main engine in step 6, or it may influence the use of the device.

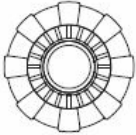
Functional Panel Control of the BT receiver

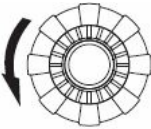
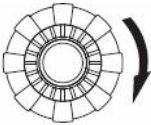
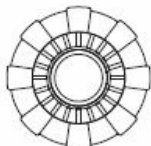


Basic Operation

Function	Button	Operation	Voice Prompt	LED Indicator light
Power on		Press and hold the on/off button for 3 seconds.	Welcome to use Free dConn products	The blue light flashes quickly and then flashes slowly.
Power off		Press and hold the on/off button for 5 seconds	Power off	The red indicator light remains on for a moment and then goes off.
Language switching		In the power-off state, press and hold the multi-function button and turn it counterclockwise for 5 seconds.	Welcome to use Free dConn products	The blue light remains on for a moment and then flashes twice.
Turn on/ off automatic answering		In the power-off state, double-click the multi-function button.	Turn on automatic answering, Turn off automatic answering	
Delete pairing history		In the power-off state, press and hold the on/off button and turn it clockwise for 5 seconds.	Power off...clear up pairing	When the device is being turned off, the red light will remain on for a moment, and when the pairing history is being deleted, the red light will flash twice.
Automatic power-off	No operation within 15 minutes after powering on without connecting with a mobile phone will lead to automatic power-off.			

Pairing with mobile phones or other Bluetooth devices

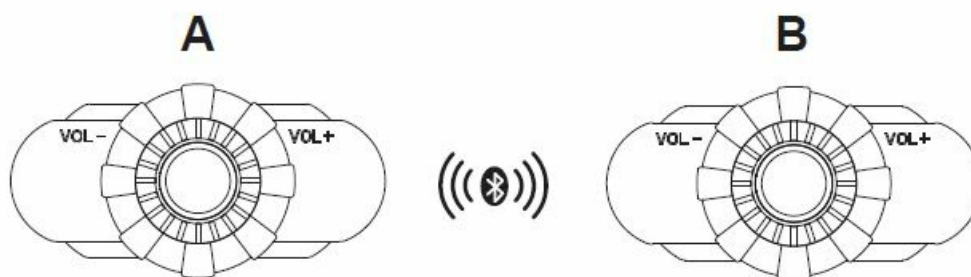
		Operation	VPorticme pt	LED indicator light
Function	Button			
Connection with mobile phones		In the power-off state, press and hold the on/off button for 5 seconds to enter the pairing status, then choose BM2-S from the Bluetooth device to start the connection.	Pairing state: the red light and blue light flash alternately. Connected: the blue light flashes.	Pairing state: the red light and blue light flash alternately. Connected: the blue light flashes.
Resuming phone connection		In the power-off state, press and hold the on/off button for 3 seconds.	Bluetooth connected	The blue light flashes
Answering a call		When a call is coming, shortly press the multi-function button once.	Call answered	The blue light flashes
Rejecting a call		When a call is coming, long press the multi-function button for 2 seconds and then release it.	Call rejected	
Ending a call		Press the multi-function button once during a phone call.	Call hung up	The blue light flashes
Changing call answering mode		Long press the multi-function button for 3 seconds during a phone call.	Toot, tick-toot	The red light flashes
Automatic call answering	Note: If there is no operation within 15 seconds, the device will answer the call automatically.		Call answered	The blue light flashes
Activating the voice assistant		In standby state, press the multi-function button for 3 seconds.	Voice call	The red light flashes
Music playing Music pause		Step one, turn on the music player in the mobile phone, Step two, click the multi-function button to play the music, and click again to pause the music.	Music playing Music pause	The blue light flashes
Radio on, off		In the power-off state, click the multi-function button to turn on the radio mode, and click again to turn off the radio mode.	Radio on Radio off	

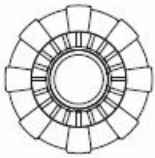
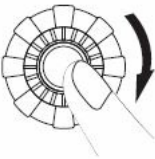
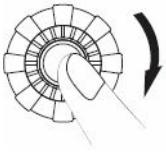
Function	Button	Operation	Voice Prompt	LliEgDhtindicator
The previous music, the previous FM channel		Shortly rotate the knob counterclockwise for one time.	The previous music/the previous channel	
Volume down		Rotate counterclockwise without releasing	Minimum volume with beep prompt	
The next music, the next FM channel		Shortly rotate the knob clockwise once.	The next music/ the next channel	
Volume up		Shortly rotate the knob clockwise once.	Maximum volume with beep prompt	
		Rotate clockwise without releasing		
Switching between music and radio		In the music mode, press the multi-function button twice to switch to the FM channel, and press twice again to return to the music mode.	Music playing/ radio on	

Intercom Operation

Note:

The two devices should be paired before starting an intercom call.

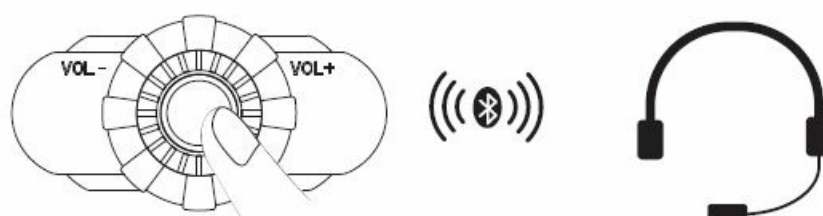


Function	Button	Operation	VPoroicme p t	LliEgDhtindicator
Bluetooth intercom pairing between two devices		Step 1: In the power-off state, press and hold the on/off buttons of two devices for 8 seconds and release when you hear the prompt. At this moment, they enter the pairing state.	Pairing State	The red and blue light flashes alternately.
		Step 2: Press and hold then shortly rotate the knob clockwise once on one of the devices, searching for another device to pair.	Searching for networks	The red and blue light flashes alternately.
		Step 3: Pairing completed. (An intercom between two people can be started now.)	Intercom connected	The blue light flashes
	Note: If pairing fails, please delete the pairing history in the devices and repeat the above operations.			
Disconnect- ing intercom Re suming intercom		Device A or B (Press and hold then shortly rotate the knob once of one of the devices)	Intercom disconnected Intercom connected	

Note:

The priority order of the functions during the use of the product is: "Phone call> Intercom> Music playing> GPS> FM.

How to pair with 3rd party intercom headsets



In the power-off state, press and hold the multi-function button for 5 seconds to enter the pairing mode, and double-click the multi-function button to enter the 3rd party pairing mode. When the red and blue lights flash, press and hold the knob button then rotate the knob clockwise once to connect with a 3rd party branded headset.

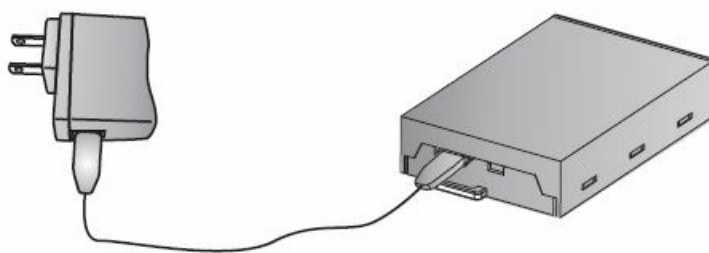
Note:

The 3rd party branded headset needs to enter the Bluetooth pairing mode according to its operation manual.

Technical Parameters

- **Bluetooth Version:** 5.0
- **Frequency:** 2.4GHZ
- **Weight:** 1709 grams
- **Intercom Time:** 14 hours
- **Phone Call Time:** 14 hours
- **Music Playing Time:** 13 hours
- **Adaptor:** 5V 1A
- **Battery Type:** Rechargeable lithium polymer battery
- **Battery Material:** Lithium-ion polymer
- **Battery PN:** 453046
- **Capacity:** 600 mAh
- **Voltage:** 3.7V
- **Power:** 2.22 wh
- **Standby Time:** 1 month (Automatically turn off if no operation or connection within 15 minutes)

Charging and Maintenance



1. Please fully charge the Bluetooth device before using it.
2. To extend the service life of the built-in polymer battery, please charge the device at least once a month.
3. If the red light is off during charging, it could be due to low voltage. It's better to continue charging it for another 0.5 to 1 hour, then check again if the Bluetooth receiver is successfully charged. If it still fails to charge, please change the charger and try again.
4. Please keep the product away from environments with extensive high (or low) temperatures, the best storage environmental temperature is between minus 40 to 60 degrees, or the service life of the product will be shortened.
5. Stay away from fire.
6. Stay away from sharp objects, or the product may be scratched or damaged.
7. Do not attempt to disassemble the headset.
8. If you do not use the headset for a long time, put it in a dry environment and charge it once a month to ensure its performance.

Tips and Troubleshooting

1. Please try again to delete the pairing history in the headset, then restart the headset to enter the pairing state. It is possible that there are too many Bluetooth pairing records in the mobile phone. You need to delete the

- pairing records in the mobile phone, restart the phone and try to pair again.
2. The two headsets can not be paired well: Delete the pairing history and restart to enter the pairing state, then try again.
 3. While listening to the music, if one of the headsets or the other intercom devices is mute, re-plug the earphones and microphone, and make sure the connection is good.
 4. In downstate: Plug in the charging wire to charge the main engine, and then the headset can be restarted.
 5. The sound quality turns poor during intercom could be caused by signal interruption. Please disconnect the intercom and try again.
 6. If the music is stuck or doesn't play, there may be other applications hogging the audio channel in the background of the phone. Check if other applications are running in the background and close them.

After-sales Service

Freedconn guarantees that helmets(including official stores/authorised stores/dealers)can be guaranteed free of charge for failures caused by defects in materials and workmanship! During the warranty period,Freedconn has the right to provide warranty schemes such as maintenance and parts replacement according to the product conditions.



After-sales technical support

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.

Any 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 the receiver.
- Connect the equipment to 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.

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

Warranty Card

Model : BM2-S

Warranty

Lifetime free

Please keep your purchasing receipt and warranty card.

Name: _____

Address: _____



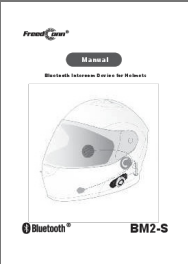
After-sales service: service@fdcdz.com.

Fault Description

- Please stick a copy of the receipt on the back of the warranty card to prove the purchase date.
- Please contact our after-sales service if any problem is found during the use of the product.
- Please fill the faults or problems you found in the warranty card so that we can handle them promptly for you.

Version: V1-2023.8.04. MADE IN CHINA.

Documents / Resources

	<p>FreedConn BM2-S Bluetooth Intercom Device for Helmets [pdf] User Manual BM2-S Bluetooth Intercom Device for Helmets, BM2-S, Bluetooth Intercom Device for Helmets, I ntercom Device for Helmets, Device for Helmets, Helmets</p>
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References

- [Coming soon – PROMPT.](#)
- [User Manual](#)

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