



BLADE

Quick Operation Guide

Welcome

Thank you for choosing FreedConn.

Trusted by riders worldwide, FreedConn stands for performance, reliability, and innovation. Each product is engineered for safety, durability, and seamless communication.

Built with advanced technology and precision craftsmanship, your device is designed to enhance every ride - from daily commutes to long-distance adventures.

Your product is backed by a 1-Year Limited Warranty for added peace of mind.

We're confident your FreedConn system will deliver dependable performance for years to come.

Safety Warning:

Using a FreedConn helmet headset while riding may reduce your ability to hear surrounding traffic, warning signals, or environmental sounds. Listening to music at high volume for extended periods may cause temporary hearing adaptation, making it difficult to detect softer sounds. Prolonged exposure to excessive volume levels may result in permanent hearing damage. For your safety:

- Always maintain awareness of your surroundings while riding.
- Avoid using maximum volume levels for long durations.
- Adjust the volume to a safe and comfortable level before riding.

Ride responsibly and prioritize road safety at all times.

To ensure optimal performance and sound quality:

- During installation, position the speaker units within 2 mm of your ears for the best audio experience.
- Fully charge the battery for at least 1.5 hours before first use. Proper installation and charging will help ensure stable performance and extended battery life.

Product Overview

- MESH group communication (up to 16 users listening, 4 speaking simultaneously)
- Cross-brand Bluetooth intercom connection
- Cross-brand Call Bridging
- Music sharing (2 users)
- Cross-brand MESH communication
- VAD microphone sensitivity adjustment
- Voice assistant activation
- Dual phone connection
- Auto answer
- AI voice command

Button Layout

- MESH Button
- Multi-Function Button: Music Play/Pause, Call Control
- Bluetooth Intercom Button, Power Button
- +/- Button: Volume Up, Next Track
- +/- Button: Volume Down, Previous Track

Power On/Off

Press and hold 2" to power on

Press and hold 3" to power off

Entering/Exiting Phone Pairing

Double press to enter or exit phone pairing mode

Call Control

Answer / End Call

Short press

Reject Incoming Call

Press and hold 2"

Activate Voice Assistant

Double Press

Call Audio Transfer

Press and hold 2"

Answer Calls from Two Mobile Phones

When it's talking on A phone, press the Multi-Function Button of A to switch to talk on another phone.

Auto Answer

The call will be answered automatically after 15 seconds if no action is taken.

Automatic Reconnection

Press and hold the Power Button for 3" to power on. The device will automatically reconnect to the last paired phone.

Manual Reconnection

Short press the Power Button once to reconnect to the last paired phone. (under the standby or intercom mode).

Music Playback Control

Enable/Disable Auto Answer

Under the power on status, press and hold the Power Button and Multi-function Button simultaneously for 1", then release to switch.

Play/Pause Music

After opening the player on your phone, gently press the Multi-Function Button to switch between playback and pause.

Next Track

Short press

Previous Track

Short press

Volume Up

Press and hold until you adjust the volume to your desired level.

Volume Down

Press and hold until you adjust the volume to your desired level.

Music Sharing (Two-User Only)

Set Up Music Sharing

Step_1: With the device powered on, double press the Power Button on the secondary unit to enter pairing mode.

Step_2: On the primary unit (with music paused), press and hold the Multi-Function Button for 1 second to initiate pairing. After successful pairing, both devices will prompt "music sharing."

Step_3: Press the Multi-Function Button on the primary unit to start sharing music with the secondary unit.

Play / Pause Sharing Music

While in sharing mode, press the Multi-Function Button on either unit to play or pause the music.

Stopping Sharing

While in music sharing mode:

Step_1: Short press the Power Button to pause the music first.

Step_2: Press and hold the Multi-Function Button for 1" on either unit to stop sharing.

NOTE: Once two devices have been paired for music sharing, press and hold the Multi-Function Button on the main unit for 1 second to share music again.

MESH Talking

Join/Exit the Network

Press and hold MESH Button for 2 seconds. Voice prompt confirms status.

Channel Switching

Press MESH and "+" buttons or MESH and "-" buttons. Channels: 1-5 (Default: Channel 3). Only devices on the same channel can communicate.

Multi-User Mic Priority

Once two devices have been paired for music sharing, press and hold the Multi-Function Button on the main unit for 1 second to share music again.

Private Chat

Double press MESH Button to create private room. Another rider must join within 1 minute. Auto closes if no one joins.

Exit Private Chat Mode

While in private chat, double press the MESH Button to exit and return to the group.

Mic Mute/Unmute (MESH Mode)

Double press "+" Button → Mute / Unmute

Channel & Battery Status

MESH intercom mode, press the MESH Button once to hear the current channel number and battery level.

Volume Control Priority (Mixing Mode)

Music playing → Adjusts music volume
Music paused → Adjusts intercom volume

Cross-Brand Bluetooth Pairing

Connecting to Another Brand Device

Step 1: Enter Pairing Mode

After powering on the BLADE, double press the Bluetooth Intercom Button to enter pairing mode.

Note:
This operation should be performed with bridge mode disabled.
If necessary, please reset the mode by steps below:
With the device powered off, press and hold the Power Button + Multi-Function Button for 7 seconds, release when you hear two prompt tones.
(Factory default: Bridge Mode enabled)

Step 2: Set the Third-Party Device

On the third-party headset, follow its user manual to enter mobile phone pairing mode.

Step 3: Start Connection

Press the Bluetooth Intercom Button on BLADE once to initiate connection with the third-party device.



Disconnect

Press the Bluetooth Intercom Button once to disconnect.



Reconnect

Press the Bluetooth Intercom Button once to reconnect to the previously paired third-party device.



Phone Bridging for Cross-Brand Group Intercom

(At least one third-party device must support Phone Bridging / Call Sharing)

Note:

Ensure Bridge Mode is enabled on BLADE if it is disabled. Follow the steps below with the device powered off, press and hold the Power Button + Multi-Function Button for 3 seconds, release when you hear two beep tones.



Step 1: Enter Pairing Mode

After powering on the BLADE, double press the Bluetooth Intercom Button to enter pairing mode.



Step 2: Prepare the Third-Party Device

On the third-party headset, select a device that supports Phone Bridging / Call Sharing, and follow its user manual to enter mobile phone pairing mode.



Step 3: Initiate Connection

Press the Bluetooth Intercom Button on BLADE once to initiate the connection.



Step 4: Answer the Call

The third-party device will ring. Answer the call on the third-party headset.



Step 5: Merge the Networks

Press the Phone Bridging / Call Sharing button on the third-party device to merge both MESH networks into one group intercom.



Disconnect MESH Bridging

Press the Bluetooth Intercom Button on BLADE once to disconnect.



Reconnect MESH Bridging (Previously Paired Devices)

Step 1

Power on both devices.



Step 2

Press the Bluetooth Intercom Button on BLADE to send a reconnection request.



Step 3

When the third-party headset rings, press its Multi-Function Button to answer and restore the intercom connection.

Phone Bridging to MESH Network

(Use this feature to add a third-party device into the BLADE MESH network.)

Add a Third-Party Device via Phone Bridging

Step 1 - Place a Call

After the third-party device is connected to a phone, make a phone call or VoIP call to a member in the BLADE MESH group.



Step 2 - Answer the Call

Answer the call on the receiving device.



Step 3 - Bridge to MESH

Press the MESH Button once to inject the call audio into the MESH group.



→ The caller can now communicate with all members in the BLADE MESH network.

Merge Two Cross-Brand MESH Networks

Step 1 - Establish Call

Select one device in each MESH group that supports Phone Bridging / Call Sharing. One device calls the other via phone or VoIP.



Step 2 - Merge Networks

After the call is connected, press the Bridging Button on both devices.
→ The two MESH networks are merged into one group intercom.



Important

VoIP calls must be answered on the smartphone (e.g. WeChat, WhatsApp, Link, etc.)

Pro Tip

Phone Bridging enables seamless communication between different brands by linking MESH networks through a call connection.

VAD (Voice Activity Detection)

While in MESH intercom mode, simultaneously press the Multi-Function Button and "+" Button or the Multi-Function Button and "-" Button to adjust sensitivity from level 1 to level 5.

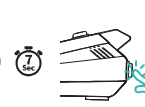


VAD (Voice Activity Detection) in MESH intercom automatically detects when someone is speaking and determines whether to open the audio transmission channel.
When speech is detected:
VAD recognizes valid voice input, activates the channel, and transmits your voice to the MESH network.
When no speech or only background noise is detected:
The channel remains closed (or in standby), preventing unwanted noise from entering the network.

car	Sensitivity	Trigger Threshold	Recommended Environment
Gear1	Very High	Easily Triggered	Quiet surroundings/ Soft-spoken users
Gear3	Medium	Balanced	Most riding scenarios Recommended Default
Gear5	Luxes	Less Prone to False Activation	Highway speeds/Strongwind / Noisy environments

Factory Reset

While the device is powered on, press and hold the Power Button for 7 seconds to restore factory settings.



Auto Power Off

If there is no operation and no connection within 15 minutes after powering on, the device will automatically power off.
The device will not auto power off while connected to a mobile phone.

Voice Command

10-Second Intelligent Listening Mode

After activation, the system stays in listening mode for 10 seconds, then automatically enters sleep mode for power efficiency.



Installation

Installing the Speakers



Installing the Microphone

Half Helmet (Boom Microphone)



Full-Face Helmet (Wired Microphone)



FAQ

1. How do I pair the device with my smartphone?

Turn on the device and enter Phone Pairing Mode. Open the Bluetooth settings on your smartphone and select BLADE from the device list to complete the pairing.

2. How do I join a MESH network?

Press the MESH Button to open the MESH network. Your device will automatically connect with nearby BLADE units in the same network.

3. What is Phone Bridging?

Phone Bridging allows a phone call or internet call to be shared with riders in the MESH group. When a call is active, press the MESH Button (Bridging key) to bring the call into the group conversation.

4. Can different brands connect to the BLADE network?

Yes. Devices from other brands that support phone sharing / bridging features can connect through a phone call or internet call. After the connection is established, both users press the Bridging Button to merge the groups into one MESH conversation.

5. How do I reset the device to factory settings?

While the device is powered on, press and hold the Power Button for 7 seconds until the reset is completed.

6. Why does the device power off automatically?

If the device has no operation and no connection for 15 minutes, it will automatically power off to save battery. If the unit is connected to a smartphone, auto power-off will not occur.

7. Can I use voice commands while in intercom mode?

No. The voice assistant is automatically disabled during intercom or phone calls to ensure stable communication.

8. How long does the voice assistant stay active?

After being activated, the assistant remains in a 10-second smart listening window and then automatically returns to sleep mode.

9. What should I do if the device does not respond?

Try the following steps:
Restart the device
Reconnect Bluetooth
Reset to factory settings
If the issue continues, please contact FreedConn customer support.

FCC Statement

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.
- 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.
FCC RF Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment can be used in portable exposure conditions.