

Froket IEM-810

Froket IEM810 PRO UHF Wireless In-Ear Monitor System User Manual

Model: IEM-810

1. INTRODUCTION

The Froket IEM810 PRO UHF Wireless In-Ear Monitor System is designed to provide high-fidelity audio monitoring for professional applications such as live stage performances, recording studios, and broadcast environments. This system features ultra-low latency UHF transmission, broadcast-grade audio fidelity, and robust metal construction for reliable performance. This manual will guide you through the setup, operation, and maintenance of your IEM810 system to ensure optimal performance.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x Transmitter
- 2x Receiver Bodypacks
- 2x Earphones
- 1x Antenna
- 2x Audio Cables
- 1x Power Supply
- 2x Corner Codes (Rack Mount Brackets)
- 1x User Manual

COMPATIBLE DEVICE

The transmitter can be connected to various audio devices



Sound console



Wireless microphone



Sound card



Pre-effector



Earphone



Digital amplifier

Image 2.1: Illustration of the Froket IEM810 PRO UHF Wireless In-Ear Monitor System package contents, including the transmitter, two bodypack receivers, earphones, antenna, cables, and power supply.

3. PRODUCT OVERVIEW

The Froket IEM810 system consists of a main transmitter unit and two portable bodypack receivers. Below is an overview of the components and their key features.



Image 3.1: The Froket IEM810 PRO UHF Wireless In-Ear Monitor System, showcasing the main transmitter unit and two bodypack receivers with earphones.

3.1. Transmitter Unit

The transmitter unit is the central hub of the system, sending audio signals wirelessly to the bodypack receivers. It features a clear LCD display for real-time information and various input/output options.

- **LCD Display:** Shows frequency, channel, RF/AF levels, and other operational data.
- **Control Buttons:** For frequency adjustment, setting parameters, and Bluetooth control.
- **Audio Inputs:** Dual XLR/TRS combo inputs for line or instrument level signals.
- **Antenna Connector:** For connecting the included UHF antenna.
- **Power Input:** DC 12-18V.



PROFESSIONAL AUDIO EQUIPMENT

" FROKET " is a registered brand of musical instruments. Its philosophy is not only dedicated to the gorgeous appearance of products, but also has inherent high quality. The purpose is to express that more hobby users and users can use high-quality products. Its design icon is not only liked by people with many years of experience in the musical instrument industry, but also attracts young people who are all new to performing.

Image 3.2: Detailed view of the Froket IEM810 transmitter's front and rear panels, highlighting the headphone jack, volume control, LCD display, IR sensor, power switch, Bluetooth indicator, 6.5mm output, 3.5mm mix input, XLR/6.5mm inputs, level controls, DC power input, and antenna interface.

3.2. Receiver Bodypack

The compact bodypack receiver is designed for portability and attaches to the user's belt. It receives the audio signal from the transmitter and delivers it to the connected earphones.

- **LCD Display:** Shows current frequency, channel, and battery status.
- **Earphone Jack:** 3.5mm output for connecting earphones.
- **Volume Control:** Integrated knob for adjusting monitoring volume.
- **Battery Compartment:** Uses AA batteries for power.
- **Belt Clip:** For secure attachment.

SPECIFICATION:

Modulation Method: $\pi/4$ -DQPSK

Frequency Range: 530-580 MHz 1x100CHs

(Frequency of some orders is subject to actual products)

Sampling Ratio: 48KHz

Transmission Rate: 204.8Kbps

Dynamic Range: > 90dB

Total Harmonic Distortion: < 0.1%

Delay Time of Audio Transmission: < 3ms

S/N Ratio: > 96dB

Frequency Response: 30 ~ 20Khz

RX Sensitivity: < -94dBm

Unique ID Address: YES



Image 3.3: The Froket IEM810 bodypack receiver with its battery compartment open, illustrating the use of AA batteries for power, providing approximately 4-5 hours of operation.

4. SETUP INSTRUCTIONS

4.1. Connecting the Transmitter

1. Connect the included antenna to the ANTENNA port on the rear of the transmitter.
2. Connect the power supply to the DC IN (12-18V) port and plug it into a power outlet.
3. Connect your audio source (e.g., mixer, sound card, pre-effector) to the AF IN XLR/6.5mm inputs on the rear panel. Use the LEVEL controls to adjust input sensitivity.
4. If needed, use the 3.5mm MIX IN or 6.5mm MIX OUT ports for additional audio routing.

MULTIPLE COLLOCATION

Multiple receivers can be connected for simultaneous use



Image 4.1: The rear panel of the Froket IEM810 transmitter, illustrating various compatible audio devices such as sound consoles, wireless microphones, sound cards, pre-effectors, earphones, and digital amplifiers.

4.2. Powering the Receiver Bodypack

1. Open the battery compartment on the back of the bodypack receiver.
2. Insert two AA batteries, ensuring correct polarity.
3. Close the battery compartment securely.
4. Connect the earphones to the 3.5mm headphone jack on the top of the bodypack.

4.3. Frequency Adjustment and IR Pairing

To establish a wireless connection, the receiver bodypack must be paired with the transmitter using IR (Infrared) synchronization.

1. Power on both the transmitter and the receiver bodypack.
2. On the transmitter, use the "UP" and "DOWN" arrow buttons to select the desired frequency. The system operates in the 530-580MHz band with 100 available channels.
3. Once the desired frequency is displayed, press the "SET" button on the transmitter. The screen will display "IR---".
4. Align the IR sensor on the front of the bodypack receiver with the IR sensor on the transmitter. Ensure they are close and facing each other.
5. The receiver will automatically synchronize with the transmitter's frequency. The display on the receiver will show the matched frequency, indicating successful pairing.

BLUE_TOOTH 5.0

Audio transmission restoration is high



Image 4.2: Visual guide demonstrating how to adjust frequencies on the transmitter and perform IR pairing with the bodypack receiver for the Froket IEM810 system.

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Video 4.1: This video demonstrates the process of frequency adjustment and IR pairing for the Froket IEM810 PRO UHF Wireless In-Ear Monitor System, showing how to select a frequency on the transmitter and synchronize it with the receiver.

4.4. Bluetooth Connectivity

The transmitter unit includes Bluetooth 5.0 for additional connectivity options, such as streaming audio from a mobile device.

- To turn Bluetooth ON/OFF, press and hold the "SET" button on the transmitter for 3 seconds. The Bluetooth indicator light will illuminate when active.
- Once Bluetooth is enabled, search for "IEM-810" on your device's Bluetooth settings and pair.

RECEIVE STABLE

Built-in diffusion copper wire, stable signal frequency.

100M

TRANSFER

The signal can be up to 300M away!!!



Image 4.3: The Froket IEM810 transmitter demonstrating Bluetooth 5.0 connectivity, allowing for high-fidelity audio transmission from a paired mobile device.

5. OPERATING INSTRUCTIONS

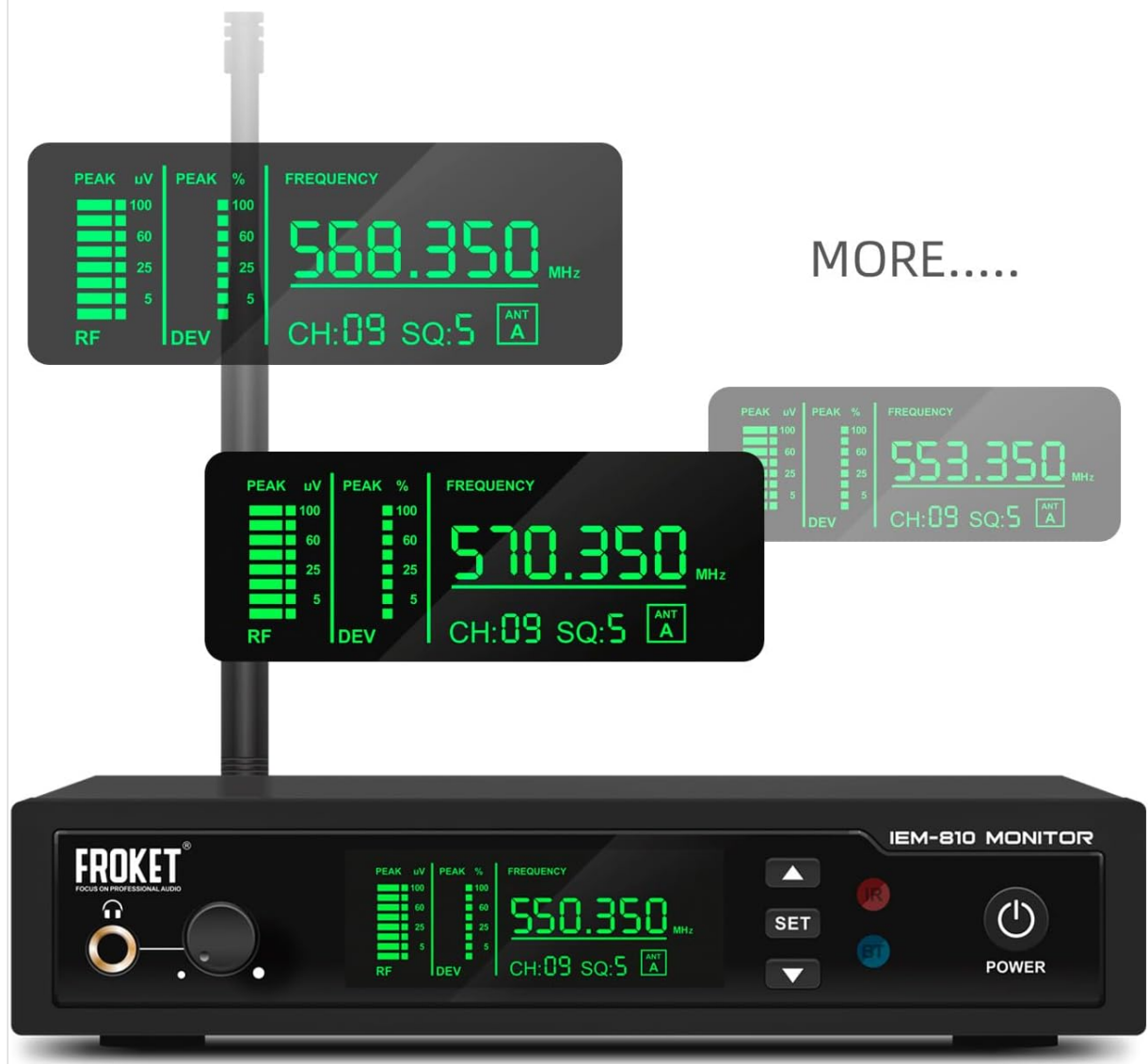
5.1. Basic Operation

After successful setup and pairing, the system is ready for use. Ensure your audio source is sending a signal to the transmitter and that your earphones are properly connected to the receiver.

- **Signal Stability:** The system provides stable signal transmission up to 100 meters (300 feet) in optimal conditions.
- **Multiple Receivers:** The 1-transmitter-to-multi-receiver architecture supports connecting multiple bodypack receivers for simultaneous monitoring.

CHANGE FREQUENCIES

100 preset frequency bands can be switched freely



MORE.....

Image 5.1: The Froket IEM810 transmitter with its antenna, illustrating stable signal reception and a transmission range of up to 100 meters (300 feet).

LONG BATTERY LIFE

Powered by AA batteries, it can work for many hours



4~5 hours



Image 5.2: The Froket IEM810 system demonstrating its capability to connect multiple bodypack receivers to a single transmitter for simultaneous use.

5.2. Volume Control

Adjust the monitoring volume directly on the bodypack receiver using the integrated volume knob. Start with a low volume and gradually increase it to a comfortable listening level to prevent hearing damage.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Froket IEM810 system, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the transmitter and receivers. Avoid using liquid cleaners or solvents.
- **Storage:** Store the system in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Care:** Remove batteries from the bodypack receivers if they will not be used for an extended period to prevent leakage.
- **Cable Management:** Avoid sharp bends or kinks in cables to prevent damage.
- **Antenna Care:** Handle the antenna carefully to avoid bending or breaking.

7. TROUBLESHOOTING

If you encounter issues with your IEM810 system, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No audio from receiver	Receiver not powered on. Earphones not connected or faulty. Receiver not paired with transmitter. Transmitter not receiving audio input. Volume on receiver too low.	Ensure receiver has fresh batteries and is powered on. Check earphone connection and test with another pair. Perform IR pairing as described in Section 4.3. Verify audio source is connected and sending signal to transmitter. Increase volume on the bodypack receiver.
Interference or poor audio quality	Conflicting frequencies with other wireless devices. Obstructions between transmitter and receiver. Receiver too far from transmitter.	Change the operating frequency on the transmitter (Section 4.3). Ensure clear line of sight between transmitter and receiver. Reduce distance between transmitter and receiver.
Bluetooth not connecting	Bluetooth not enabled on transmitter. Device not in pairing mode or out of range.	Press and hold "SET" for 3 seconds to enable Bluetooth (Section 4.4). Ensure your device's Bluetooth is on and within range.

8. SPECIFICATIONS

Detailed technical specifications for the Froket IEM810 PRO UHF Wireless In-Ear Monitor System:

Feature	Description
Model Name	IEM-810
Modulation Method	$\pi/4$ -DQPSK
Frequency Range	530-580 MHz (100 Channels)
Sampling Rate	48KHz
Transmission Rate	204.8kbps
Dynamic Range	>90dB
Total Harmonic Distortion (THD)	<0.1%
Audio Latency	<3ms
Signal-to-Noise Ratio (S/N)	>96dB

Feature	Description
Frequency Response	30Hz-20KHz
RX Sensitivity	<-94dBm
Unique ID Address	Yes
Connectivity Technology	Wireless (UHF)
Headphones Jack	3.5 mm Jack
Material	Metal, Plastic
Item Weight	1.85 Kilograms (4.07 pounds)
Power Input	DC 12-18V (Transmitter)
Receiver Power	AA Batteries (4-5 hours operating time)

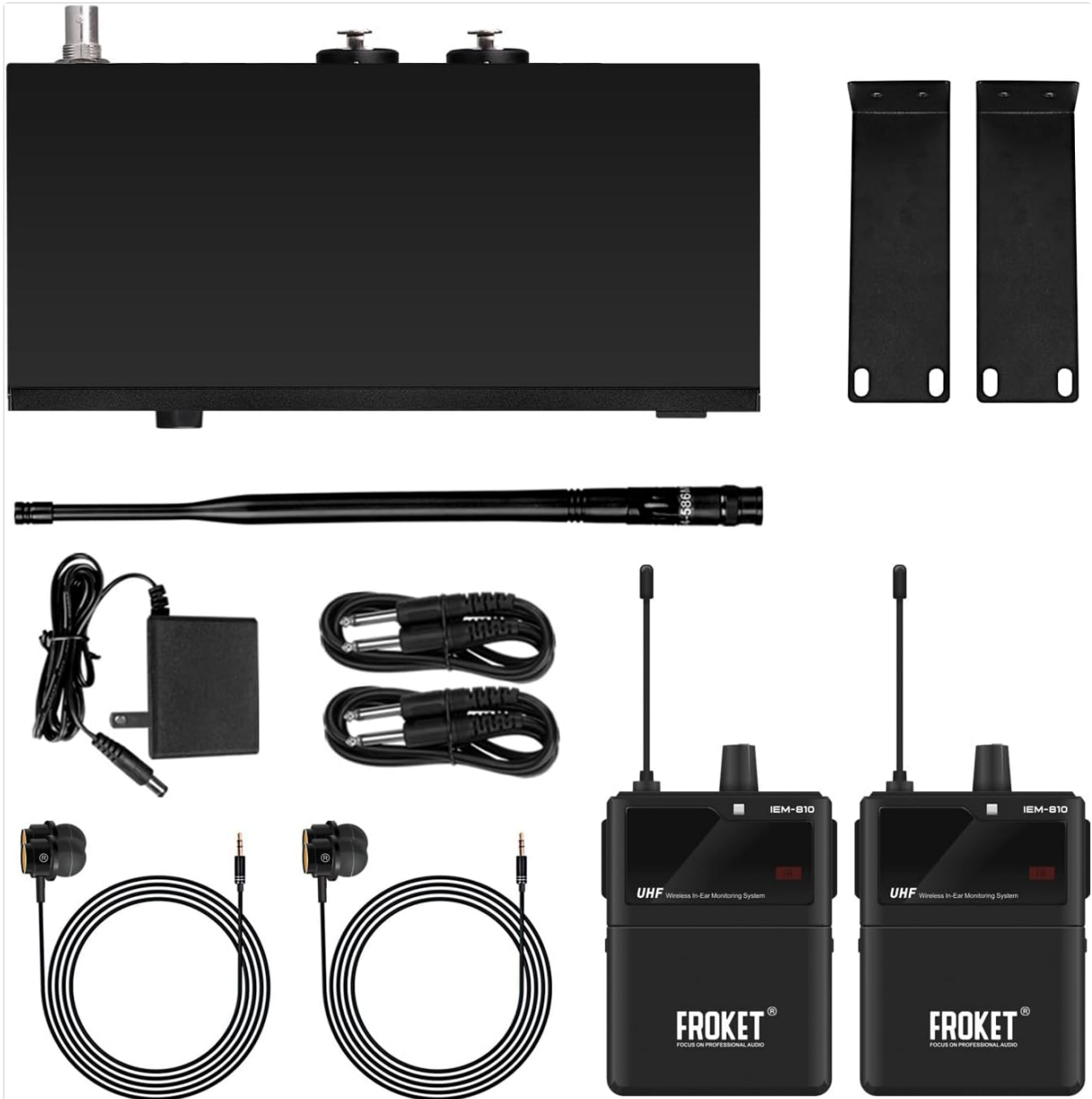


Image 8.1: A diagram detailing the specifications and dimensions of the Froket IEM810 PRO UHF Wireless In-Ear Monitor System transmitter and bodypack receiver.

9. SAFETY INFORMATION

Please read and adhere to the following safety precautions:

- Do not expose the unit to rain or moisture to avoid fire or electric shock.
- Do not open the casing. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Avoid placing the unit near heat sources or in direct sunlight.
- Use only the specified power supply.
- Do not operate the system at excessively high volumes for prolonged periods, as this can cause hearing damage.
- Keep out of reach of children.

10. WARRANTY AND SUPPORT

Frocket provides customer support for its products. For any questions, technical assistance, or warranty inquiries, please contact us directly.

Contact Email: forket-audio@hotmail.com

Please refer to your purchase documentation for specific warranty terms and conditions.