LEKATO WS-90

LEKATO 5.8G Wireless Guitar System WS-90 User Manual

Model: WS-90

1. Introduction

Thank you for choosing the LEKATO 5.8G Wireless Guitar System WS-90. This system provides a reliable and high-quality wireless connection for your electric guitar, bass, and other compatible instruments. Please read this manual thoroughly to ensure proper setup and operation.

2. Product Overview

The LEKATO WS-90 system consists of a transmitter and a receiver, designed for seamless audio transmission.

2.1 Components

- **Transmitter:** Connects to your instrument's output jack.
- **Receiver:** Connects to your amplifier, pedal, or audio interface's input.
- **Dual-ended Type-C Cable:** For recharging both units simultaneously.
- **Storage Bag:** For convenient transport and protection.
- **User Manual:** This document.



Image: The package contents of the LEKATO WS-90 Wireless Guitar System, including one transmitter, one receiver, a dual-ended Type-C

charging cable, a storage bag, and the user manual.

2.2 Key Features

- **5.8GHz Frequency Band:** Provides stable and interference-free signal transmission.
- **24-bit/48kHz Audio Quality:** Delivers high-resolution, lossless sound.
- **Low Latency:** Less than 5.6ms for real-time performance.
- **Long Transmission Range:** Up to 100 feet (approximately 30 meters).
- **8 Hours Battery Life:** Extended usage on a single charge.
- **4 Switchable Channels:** Allows multiple units to operate simultaneously without interference.
- **190° Rotatable Plug:** Accommodates various instrument jack positions.
- **Plug and Play:** Automatic channel setup for ease of use.



Image: The LEKATO WS-90 wireless guitar system, showing both the transmitter and receiver units. The transmitter has a guitar icon, and the receiver has a speaker icon, indicating their respective functions. Both units feature a 1/4-inch jack with a red accent.



Image: A close-up view of the LEKATO WS-90 transmitter and receiver units, highlighting the 5.8GHz wireless technology and 24-bit/48kHz high sample rate for superior audio quality. The units are shown connected to an electric guitar and an amplifier.

3. Setup Instructions

Follow these steps to set up your LEKATO WS-90 wireless system:

1. **Charge the Units:** Before first use, fully charge both the transmitter and receiver using the provided USB-C cable. Refer to the "Charging Instructions" section for details.
2. **Power On:** Turn on both the transmitter and receiver by sliding the ON/OFF switch. The indicator lights will illuminate.
3. **Connect Transmitter:** Plug the transmitter into your instrument's 1/4-inch output jack. Adjust the 190° rotatable plug for optimal positioning.
4. **Connect Receiver:** Plug the receiver into the 1/4-inch input of your amplifier, effects pedal, or audio interface.
5. **Automatic Pairing:** The transmitter and receiver will automatically pair. If they do not pair, or if you experience interference, refer to the "Channel Selection" section.

6. **Test Connection:** Play your instrument to confirm that the audio signal is being transmitted wirelessly.



Image: A user demonstrating the 'Plug and Play' functionality of the LEKATO WS-90 system, with the transmitter plugged into an electric bass guitar. The image emphasizes the ease of setup for immediate use.

4. Operating Instructions

4.1 Power On/Off

To power on or off the units, use the dedicated ON/OFF slide switch located on the side of each device.

4.2 Channel Selection

The WS-90 system supports 4 simultaneous channels. If you experience interference or need to use multiple systems, you can manually change the channel:

1. With both units powered on, press the "CHANNEL" button on the transmitter. The channel indicator lights will change.

2. Press the "CHANNEL" button on the receiver to match the channel of the transmitter.
3. Ensure both units are set to the same channel for proper operation.



Image: An illustration showing the LEKATO WS-90 system's capability for simultaneous broadcast on 4 channels. Multiple transmitter and receiver pairs are depicted, each set to a different channel group (1st, 2nd, 3rd, 4th) to prevent interference.

4.3 Signal Transmission

The 5.8GHz frequency band ensures a strong and clear signal. Maintain a line of sight between the transmitter and receiver for optimal performance, especially at longer distances (up to 100 feet).



Image: This graphic highlights the high-resolution sound quality, low interference, and lossless pure sound of the LEKATO WS-90. It also illustrates a transmission distance of over 100 feet and a low latency of 5.6ms, with the transmitter and receiver units shown in a live performance setting.

5. Charging Instructions

The LEKATO WS-90 units are equipped with built-in rechargeable Lithium Polymer batteries.

- Connect the provided dual-ended USB-C cable to both the transmitter and receiver.
- Plug the other end of the USB-C cable into a standard USB power adapter (not included) or a computer USB port.
- The charging indicator light will show the charging status.
- A full charge takes approximately 1.5 hours and provides up to 8 hours of continuous use.
- The upgraded lithium cells are engineered to maintain 80% capacity after 500 charge cycles.



Image: This image illustrates the built-in rechargeable battery feature of the LEKATO WS-90 system, indicating an 8-hour battery life after a full charge. Both the transmitter and receiver are shown connected via a USB-C cable for charging.

6. Compatibility

The LEKATO WS-90 is compatible with a wide range of musical instruments and audio equipment:

- Electric Guitars
- Electric Basses
- Electric-Acoustic Guitars
- Keyboards
- Electronic Drums
- Audio Mixers
- Any other electric instruments that use standard 1/4-inch output jacks.

The 190° rotatable plug design ensures a secure and comfortable fit for various instrument body shapes and jack

placements.



Image: This visual demonstrates the versatility of the LEKATO WS-90 system, showing its compatibility with various musical instruments such as guitars, basses, keyboards, violins, electronic drums, and audio mixers. The 190° rotatable 1/4-inch plug design is highlighted, allowing for flexible positioning on different instruments.

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the units. Do not use liquid cleaners or solvents.
- **Storage:** Store the system in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** To prolong battery life, avoid fully discharging the units frequently. If storing for an extended period, charge the batteries to about 50% every few months.
- **Avoid Impact:** Protect the units from drops and impacts, which can damage internal components.

8. Troubleshooting

Problem	Possible Cause	Solution
No Sound	Units not powered on. Units not paired. Low battery. Incorrect channel.	Ensure both transmitter and receiver are switched ON. Verify units are paired (indicator lights). Charge both units fully. Match channels on both units.
Interference/Static	Other 5.8GHz devices nearby. Obstructions between units. Units too far apart. Incorrect channel.	Change to a different channel. Reduce distance between units. Ensure clear line of sight. Match channels on both units.
Short Battery Life	Units not fully charged. Aging battery.	Ensure units are fully charged (1.5 hours). Contact customer support if battery life significantly degrades after many cycles.

9. Specifications

Feature	Detail
Model Number	WS-90
Frequency Band	5.8GHz
Audio Quality	24-bit/48kHz
Latency	<5.6ms
Transmission Range	Up to 100 feet (approx. 30 meters)
Dynamic Range	105dB
Frequency Response	20Hz-22kHz
Battery Type	Lithium Polymer
Battery Life	Up to 8 hours (after 1.5 hours charge)
Charging Port	USB-C
Rotatable Plug	190°
Item Weight	8.1 ounces (approx. 230g)
Color	Black

10. Warranty and Support

LEKATO products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your product packaging or visit the official LEKATO website.

Please retain your proof of purchase for warranty claims.

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