

BOSS WL-20

BOSS WL-20 Compact Wireless Instrument System User Manual

Model: WL-20

1. PRODUCT OVERVIEW

The BOSS WL-20 is a compact, plug-and-play wireless system designed for guitar, bass, and other electronic instruments. It offers a reliable and high-quality wireless connection, eliminating the need for traditional instrument cables. The system features ultra-fast BOSS wireless technology, built-in cable tone simulation, and convenient USB charging.

Key features include:

- Plug-and-play operation for quick setup.
- Integrated Cable Tone Simulation to replicate the natural capacitance effect of a 10-foot (3-meter) guitar cable.
- USB charging for both transmitter and receiver units.



Image: The BOSS WL-20 wireless system, showing the transmitter and receiver units connected for charging.

2. SETUP GUIDE

2.1. Charging the Units

Before initial use, ensure both the transmitter (WL-T) and receiver (WL-20R) units are fully charged. Connect the transmitter to the receiver, then connect the receiver to a standard USB power adapter (5V/0.5A or higher) using a micro USB cable. The POWER indicator will illuminate red during charging and turn green when fully charged. A full charge typically provides approximately 10 hours of continuous operation.



Image: Close-up view of the BOSS WL-20 units, highlighting the USB charging port.

2.2. Pairing and Connection

The WL-20 system is designed for automatic pairing. To establish a connection:

1. Ensure both the transmitter and receiver are charged.
2. Connect the transmitter (WL-T) to the receiver (WL-20R) by plugging the transmitter's 1/4-inch jack into the receiver's input.
3. The POWER/RECEIVE indicators on both units will blink, then turn solid green, indicating a successful pairing and connection.
4. Once paired, disconnect the transmitter from the receiver. The connection will remain active.



Image: The BOSS WL-20 transmitter and receiver units shown separately, displaying their 1/4-inch jacks and micro USB ports.

3. OPERATION

3.1. Connecting to Your Instrument and Amplifier

After pairing, connect the units as follows:

1. Plug the WL-T transmitter into your instrument's output jack.
2. Plug the WL-20R receiver into the input of your amplifier, pedal, or audio interface.
3. Ensure your instrument and amplifier are powered on. The POWER/RECEIVE indicators on both WL-20 units should be solid green, indicating an active connection.



Image: The BOSS WL-20 receiver unit plugged into the input jack of an electric bass guitar.

3.2. Cable Tone Simulation

The WL-20 features a built-in cable tone simulation that emulates the subtle tonal characteristics of a 10-foot (3-meter) instrument cable. This ensures that your instrument's tone remains consistent with what you would expect from a traditional wired connection. This feature is always active and does not require any user configuration.



Image: A musician playing an electric guitar, demonstrating the freedom of movement provided by the BOSS WL-20 wireless system.

4. CARE AND MAINTENANCE

- **Cleaning:** Wipe the units with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Care:** To prolong battery life, avoid fully discharging the units frequently. Recharge them regularly, especially if they will be stored for an extended period.
- **Storage:** Store the WL-20 in a cool, dry place away from direct sunlight and extreme temperatures.
- **Environmental Conditions:** Avoid exposing the units to moisture, dust, or excessive vibrations.

5. TROUBLESHOOTING

Issue	Possible Cause	Solution
No sound or intermittent signal	Units not paired. Low battery on transmitter or receiver. Interference from other 2.4 GHz devices (Wi-Fi, other wireless systems). Distance between units is too great.	Reconnect transmitter to receiver to re-pair. Charge both units fully. Move away from sources of interference or try a different location. Reduce the distance between the transmitter and receiver.
Short battery life	Units not fully charged. Aging battery.	Ensure units are charged until the POWER indicator turns solid green. Contact customer support if battery life significantly degrades over time.
Sound is distorted or noisy	Input level from instrument is too high. Interference.	Adjust the volume on your instrument. Check for and eliminate sources of interference.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	WL-20

Feature	Specification
Item Weight	7.7 ounces
Product Dimensions	4 x 2 x 1 inches
Batteries	2 Lithium Ion batteries (included)
Battery Type	Lithium Ion
Power Source	Battery-Powered
Connector Type	USB
Color	Black
Material Type	Plastic
Instrument Compatibility	Guitar, Bass, Electronic Instruments

7. WARRANTY AND CUSTOMER SUPPORT

For information regarding the product warranty, please refer to the warranty card included with your purchase or visit the official BOSS website. Warranty terms and conditions may vary by region.

For further assistance, technical support, or to explore other BOSS products, please visit the official BOSS store or support page:

[Visit the BOSS Store on Amazon](#)

