

Before using this unit, carefully read "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (the leaflet "USING THE UNIT SAFELY"). After reading, keep the document(s) where it will be available for immediate reference.

### Stable wireless communication with no dropouts (Auto Wireless Connection)

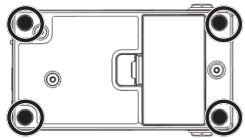
Simply connect the transmitter with the receiver; the receiver scans the local state of the wireless spectrum and automatically chooses the optimal channel.

### Switches to standby mode when silence continues

When one hour passes without you playing your guitar, the transmitter enters standby mode.

## Preparing the Receiver (WL-50)

### Attaching the rubber feet

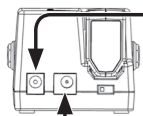


You can attach the rubber feet (included) if necessary. Attach them in the locations shown in the illustration.

### Preparing the power supply

You can use either an AC adaptor (PSA-S series: sold separately) or alkaline batteries.

### Connecting an AC adaptor



**IN jack**  
Connect the AC adaptor (PSA-S series: sold separately) to the IN jack.

\* We recommend that you keep batteries installed in the unit even though you'll be powering it with the AC adaptor. That way, you'll be able to continue a performance even if the cord of the AC adaptor gets accidentally disconnected from the unit.

**OUT jack**

When an AC adapter is used, you can connect a PCS-20A parallel DC cord (sold separately) to supply power to effects processors and other PSA-S adaptor-compatible gear.

\* Power cannot be supplied from the OUT jack when the WL-50 is running on batteries.

\* If you use the PCS-20A to supply power to devices that are compatible with PSA-S adaptors, make sure that the total current consumption of all devices (including the WL-50) does not exceed the maximum output current of the PSA-S series unit you're using. The maximum output current is listed in the OUTPUT field of the label affixed to the adaptor itself.

### Installing alkaline batteries

Remove the battery cover located on the back of the receiver, and install batteries in the correct polarity as indicated on the unit.

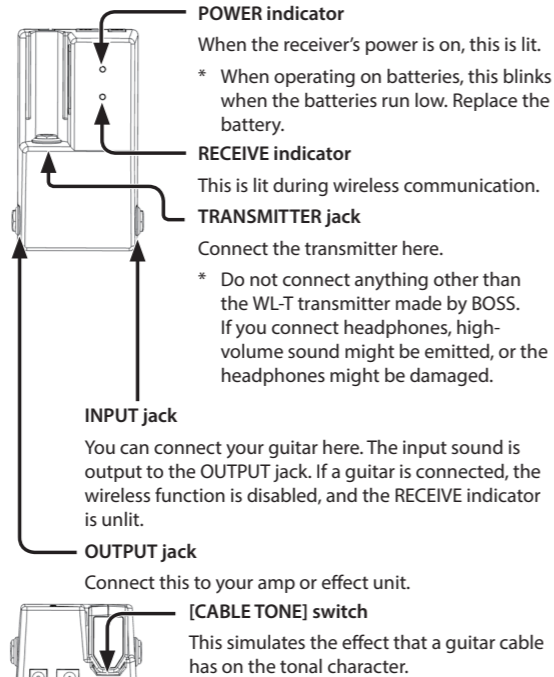
\* If you handle batteries improperly, you risk explosion and fluid leakage. Make sure that you carefully observe all of the items related to batteries that are listed in "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (leaflet "USING THE UNIT SAFELY").

### Turning the power on

When you connect a cable to the OUTPUT jack, the receiver's power turns on.

\* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

### Other parts and their function



[CABLE TONE] switch	
OFF	OFF
SHORT	Characteristics of a 3-meter (10-foot) guitar cable
LONG	Characteristics of a 6-meter (20-foot) guitar cable

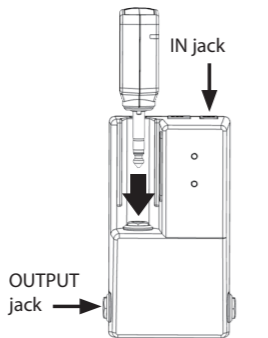
## Charging the Transmitter (WL-T)

Use either method to charge.

### Charging from the receiver

Connect an AC adaptor to the IN jack, and connect the cable to the OUTPUT jack.

Then insert the transmitter into the TRANSMITTER jack.



BATTERY indicator	
Blinking orange	The system is monitoring the local state of the 2.4 GHz wireless spectrum for 10 seconds, and automatically making adjustments so that the receiver and transmitter can connect with optimal stability (Auto Wireless Connection).

### Charging from a USB AC adaptor

Connect a commercially available USB cable and USB AC adaptor (5 V/0.5 A or higher) to the DC IN 5 V port.

\* When charging from the DC IN 5 V port, the wireless connection does not operate.

DC IN 5 V port (USB Micro-B type)



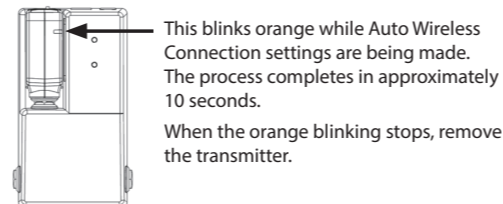
BATTERY indicator	
Lit orange	Charging. * The charging time differs depending on the remaining battery charge and on the charging environment.
Blinking green	Charging is completed, and the transmitter is in standby mode. Unplug the transmitter. * We recommend that you disconnect the transmitter after charging is completed. If you leave it connected, a small amount of power is used from the battery, and the indicator blinks green once every eight seconds. * If you have not used the transmitter for a long time, one charge might not be sufficient. Disconnect and reconnect the transmitter to complete charging.
Lit green	When five hours have passed since charging started, charging automatically stops in order to protect the rechargeable lithium-ion battery, even if charging was not completed. To charge completely, disconnect and reconnect the transmitter.
Blinking red	A charging error occurred. ➔ "Troubleshooting"

BATTERY indicator	
Lit orange	Charging. * The charging time differs depending on the remaining battery charge and on the charging environment.
Blinking green	Charging is completed, and the transmitter is in standby mode. Unplug the transmitter. * We recommend that you disconnect the transmitter after charging is completed. If you leave it connected, a small amount of power is used from the battery, and the indicator blinks green once every eight seconds. * If you have not used the transmitter for a long time, one charge might not be sufficient. Disconnect and reconnect the transmitter to complete charging.
Lit green	When five hours have passed since charging started, charging automatically stops in order to protect the rechargeable lithium-ion battery, even if charging was not completed. To charge completely, disconnect and reconnect the transmitter.
Blinking red	A charging error occurred. ➔ "Troubleshooting"

## Making Wireless Settings (Auto Wireless Connection)

\* Execute the following operation before you play your guitar. In particular when you're playing live or in a session, the wireless conditions might change between the rehearsal and the actual event, so you should execute the following operation once again before the actual event.

1. Connect the cable to the OUTPUT jack and turn the power on.
2. Insert the transmitter into the TRANSMITTER jack.



### For stable wireless communication

If audio dropouts occur, it might be that the local state of the wireless spectrum has changed. Execute the Auto Wireless Connection operation once again.

Since the WL-50 uses a 2.4 GHz wireless system, we recommend that you place the receiver at least three meters away from a Wi-Fi router or other wireless device.

Using a microwave oven might also cause audio dropouts due to wireless interference.

### Using multiple wireless systems together

To prevent confusion between the wireless systems, perform the following steps.

1. Power-off the BOSS wireless systems.
2. Power-on any wireless systems not made by BOSS, and set them up so that there are no problems with their sound.
3. Power-on the receiver, insert the transmitter, and execute the Auto Wireless Connection procedure.
4. Plug the transmitter into your guitar, making the BATTERY indicator light.
5. Repeat steps 3 and 4.

## Performing

When you plug the transmitter into your guitar, the transmitter power-on automatically.

BATTERY indicator	
Lit green	There is sufficient remaining battery capacity.
Blinking green	Standby mode.
Lit orange	Battery will be exhausted in less than two hours.
Lit red	Battery will be exhausted in less than 30 minutes. Please recharge.

### Switches to standby mode when silence continues

When one hour passes without you playing your guitar, the transmitter enters standby mode and ends the connection with the receiver. The BATTERY indicator blinks green.

### Note when returning from standby mode

When you raise the volume of your guitar and play it, the transmitter returns from standby mode in approximately two seconds.

### When not using the system for an extended time

Unplug the transmitter. Standby mode does consume battery power, although only very slightly.

## Turning the Power Off

1. Minimize the volume of your guitar and of output devices such as the amp, and then turn off the power.
2. Unplug the transmitter from the guitar.
3. Unplug the cable from the receiver's OUTPUT jack.

## Troubleshooting

Problem	Items to check/Action
No sound when you play the guitar in which the transmitter is inserted	Remove and reinsert the transmitter in the guitar.
	Could a cable be connected to the INPUT jack? The guitar connected to the INPUT jack takes priority.
	Is the receiver too far away from the transmitter? Alternatively, are there obstructions between them? Decrease the distance between the receiver and the transmitter.
	Could you be recharging transmitter from the DC IN 5 V port? Disconnect the USB cable when you're playing.
	Is the transmitter's BATTERY indicator lit? If it is unlit, recharge the transmitter.
The sound of a different guitar is heard	Is the receiver's RECEIVE indicator lit? If it is unlit, execute the Auto Wireless Connection procedure.
	Could there be a different receiver or transmitter nearby? Execute the Auto Wireless Connection operation once again.
	If this does not solve the problem, it could be that radio-frequency congestion on the 2.4 GHz band is causing channels to conflict with another wireless system. To reduce radio-frequency congestion, turn off the power of any unused Wi-Fi router, Bluetooth device, or microwave oven, and then execute the Auto Wireless Connection operation once again.

Problem	Items to check/Action
The BATTERY indicator blinks red	A charging error occurred. * If the transmitter's internal temperature rises, charging might pause. This occurs in order to protect the rechargeable lithium-ion battery. When the internal temperature falls, the BATTERY indicator changes to be lit orange, and charging resumes. * Could the ambient temperature be above 35°C? Charging might stop for a while in order to protect the rechargeable lithium-ion battery. Use the unit in the recommended ambient temperature range of 10–30°C.
	* If the indicator continues blinking red even though you are charging in the recommended temperature range (10–30°C) Contact your dealer or a Roland customer service center.

## Main Specifications

### BOSS wireless system: WL-50

RECEIVER	
Wireless Format	BOSS proprietary digital audio format
Wireless carrier frequency	2.4 GHz
Compatible Channels	14 (May vary due to local conditions)
Transmission Range	20 meters (65 feet) line-of-sight (May vary due to local conditions)
Latency	2.3 ms
Dynamic Range	110 dB or greater
Frequency Response	20 Hz–20 kHz
Nominal Input Level	-10 dBu * 0 dBu = 0.775 Vrms
Power Supply	Alkaline battery (AA, LR6) x 2, AC adaptor (sold separately)
Current Draw	During wireless operation: 60 mA While charging transmitter: 320 mA
Dimensions	72 (W) x 121 (D) x 56 (H) mm 2-7/8 (W) x 4-13/16 (D) x 2-1/4 (H) inches
Weight (including battery)	220 g 8 oz
Accessories	Owner's Manual Leaflet USING THE UNIT SAFELY Transmitter (*1) Rubber foot x 4 Alkaline battery (AA, LR6) x 2 *1: An AC adaptor (PSA-S series) is required to charge the transmitter (WL-T).
Options (sold separately)	AC adaptor: PSA-S series Parallel DC cord: PCS-20A (DC Plug x8)

TRANSMITTER (WL-T)	
Nominal Input Level	-10 dBu * 0 dBu = 0.775 Vrms
Power Supply	Rechargeable lithium-ion battery Supplied from the DC IN 5 V port
Current Draw	350 mA
Battery charging time	Approximately 3 hours
Dimensions	87 (W) x 22 (D) x 36 (H) mm 3-7/16 (W) x 7/8 (D) x 1-7/16 (H) inches
Weight	43 g 2 oz

\* This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

[https://roland.cm/wl-50\\_spec](https://roland.cm/wl-50_spec)

