

Eko GBU

Eko GBU Wireless System User Manual

Model: GBU | Brand: Eko

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Eko GBU Wireless System. Please read this manual thoroughly before operating the device and retain it for future reference. The Eko GBU Wireless System is designed to provide a cable-free connection for musical instruments such as guitars, basses, and ukuleles, offering freedom of movement without compromising sound quality.

2. PRODUCT OVERVIEW

The Eko GBU Wireless System consists of two main components: a Transmitter and a Receiver. Both units feature a 1/4-inch (6.35mm) jack that can rotate 270 degrees for flexible connection to various instruments and amplifiers/mixers.





Figure 2.1: Eko GBU Wireless System Receiver (right) and Transmitter (left).

The image above displays the Eko GBU Wireless System, showing both the Receiver and Transmitter units. The Receiver is on the right, labeled "RECEIVER", and the Transmitter is on the left, labeled "TRANSMITTER". Both units are compact and black, designed for discreet integration with musical equipment.



Figure 2.2: Eko GBU Wireless System units demonstrating adjustable jacks.

This image illustrates the flexibility of the Eko GBU Wireless System, showcasing both the Transmitter and Receiver with their 1/4-inch jacks rotated to different angles. This adjustable design allows for optimal positioning on various instruments and audio equipment.

Components:

- **Transmitter:** Connects to your instrument (guitar, bass, ukulele).
- **Receiver:** Connects to your amplifier, mixer, or audio interface.
- **USB Charging Cable:** For recharging the integrated lithium batteries.

3. SETUP

3.1 Charging the Units

Before first use, ensure both the Transmitter and Receiver are fully charged. Use the provided USB charging cable to connect both units simultaneously to a USB power source (e.g., computer USB port, USB wall adapter). The integrated lithium batteries are rechargeable.

- A full charge typically takes a few hours.
- The "CHARGE ID" indicator lights will illuminate during charging and turn off or change color when fully charged (refer to specific LED behavior in the Operating section).

3.2 Connecting the Transmitter to Your Instrument

Insert the 1/4-inch jack of the Transmitter into the output jack of your instrument (guitar, bass, or ukulele). Adjust the angle of the jack for a secure and comfortable fit.



Figure 3.1: Attaching the Transmitter to an acoustic guitar.

This image shows a hand inserting the Eko GBU Wireless System Transmitter into the output jack of an acoustic guitar. The compact design allows for a direct and unobtrusive connection to the instrument.

3.3 Connecting the Receiver to Your Amplifier/Mixer

Insert the 1/4-inch jack of the Receiver into the input jack of your amplifier, mixer, or audio interface. Adjust the angle of the jack as needed.



Figure 3.2: Wireless system connected to an electric guitar and amplifier.

This image displays the Eko GBU Wireless System in use: the Transmitter is connected to an electric guitar, and the Receiver is plugged into an amplifier. This setup demonstrates the cable-free connection between the instrument and the amplification system.



Figure 3.3: Wireless system connected to an acoustic guitar and amplifier.

This image shows the Eko GBU Wireless System connected to an acoustic guitar and an Eko amplifier. The Transmitter is plugged into the acoustic guitar's output, and the Receiver is connected to the amplifier's input, illustrating a typical usage scenario.

3.4 Pairing the Units

The Eko GBU Wireless System units are typically pre-paired from the factory. Upon powering on both the Transmitter and Receiver, they should automatically establish a connection. If pairing is required, or if you experience connection issues:

- Ensure both units are powered on.
- Press and hold the "POWER PAIR" button on both the Transmitter and Receiver simultaneously until the pairing indicator lights (usually the "POWER PAIR" LED) flash rapidly, then turn solid, indicating a successful connection.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

To power on each unit, press and hold the "POWER PAIR" button until the indicator light illuminates. To power off, press and hold the "POWER PAIR" button again until the light turns off.



Figure 4.1: Close-up view of the Transmitter's indicator lights and buttons.

This close-up image of the Eko GBU Wireless System Transmitter highlights its control interface, including the "CHARGE ID" and "POWER PAIR" buttons and their corresponding indicator lights. These controls are used for power management, pairing, and channel selection.

4.2 Channel Selection

The GBU Wireless System operates on the 5.8G frequency band and offers 4 selectable channels to avoid interference. If you experience signal drops or interference from other wireless devices, you can change the operating channel:

- With both units powered on and connected, briefly press the "CHARGE ID" button on both the Transmitter and Receiver.
- Each press will cycle through the available channels. Ensure both units are set to the same channel for proper operation. The "CHARGE ID" LEDs typically indicate the selected channel (e.g., number of flashes or specific LED combination).

4.3 Performance Characteristics

- **Low Latency:** The system boasts a latency of less than 5 milliseconds, ensuring virtually no noticeable delay between playing your instrument and hearing the sound.
- **Wide Frequency Range:** It supports a frequency range from 20Hz to 20kHz, capturing the full spectrum of your instrument's sound.
- **High Sampling Frequency:** With a sampling frequency of 24bit/48kHz, the system delivers high-fidelity audio transmission.
- **Operating Range:** The signal can reach over 30 meters (approximately 100 feet) in open areas, providing ample freedom of movement during performances or practice.

5. MAINTENANCE

5.1 Cleaning

Wipe the units with a soft, dry cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these may damage the finish or internal components. Avoid exposing the units to excessive moisture.

5.2 Battery Care

- Recharge the units regularly, even if not in frequent use, to maintain battery health.
- Avoid completely draining the battery before recharging.
- Store the units in a cool, dry place when not in use for extended periods.

6. TROUBLESHOOTING

6.1 No Sound or Intermittent Signal

- **Check Power:** Ensure both the Transmitter and Receiver are powered on and have sufficient battery charge.
- **Check Connection:** Verify that both units are securely plugged into the instrument and amplifier/mixer.
- **Re-pair Units:** If the connection is lost, try re-pairing the units as described in Section 3.4.
- **Change Channel:** Interference from other 5.8G devices can cause signal issues. Cycle through the 4 available channels (Section 4.2) to find a clear frequency.
- **Range:** Ensure you are within the 30-meter operating range and that there are no significant obstructions (e.g., thick walls) between the units.

6.2 Battery Life Issues

- **Full Charge:** Ensure units are fully charged before use.
- **Battery Degradation:** Over time, rechargeable batteries may degrade. If battery life significantly diminishes despite proper charging, it may indicate the end of the battery's lifespan.

7. SPECIFICATIONS

Model Name	GBU
Model Number	16100440
Dimensions (L x W x H)	13.2 x 10.2 x 4.2 cm (approx. for packaging)
Weight	160 grams
Color	Black
Compatible Instruments	Guitar, Bass, Ukulele
Battery Type	Lithium (integrated, 1 CR2 battery mentioned in product data)
Charging	USB Rechargeable
Frequency Band	5.8G
Available Channels	4
Latency	< 5 milliseconds
Frequency Response	20Hz - 20kHz
Sampling Frequency	24bit/48kHz
Operating Range	> 30 meters (approx. 100 feet)

8. WARRANTY AND SUPPORT

The Eko GBU Wireless System is covered by a standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and duration. For technical support, warranty claims, or service inquiries, please contact your retailer or the official Eko customer support channels. For more information about Eko products, visit the official Eko website or the Eko store on Amazon:[Eko Store](#)

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