ACEMIC GT-5

ACEMIC GT-5 Wireless Microphone System User Manual

Model: GT-5

1. Introduction

The ACEMIC GT-5 is a portable digital wireless microphone system designed for instruments, particularly electric blowpipes, and stage performances. It features digital audio transmission, 16 selectable frequencies, and a digital ID code to prevent interference. This manual provides detailed instructions for setting up, operating, and maintaining your GT-5 system.

Figure 1.1: The ACEMIC GT-5 wireless microphone system, showing the transmitter (left) and the receiver (right). The transmitter features a 6.35mm plug, while the receiver has controls for power and frequency synchronization.

2. Package Contents

Please check the package contents to ensure all items are present:

- GT-5 Wireless Transmitter
- GT-5 Wireless Receiver
- Battery (Note: While the product specifications list a battery as an included component, some descriptions indicate it may not be included. Please verify upon receipt.)

3. Key Features

- Digital wireless audio transmission for clear sound.
- Pre-set 16 selectable frequencies to avoid interference.

- Digital ID code technology for robust signal integrity.
- Operating range of up to 40 meters (line-of-sight).
- Suitable for electric blowpipe, stage performances, and street performances.
- Portable plug-on receiver, directly connects to mixers or active speakers.
- Lithium battery power supply for extended use.

4. Setup Instructions

4.1. Charging the Batteries

Both the transmitter and receiver are powered by 3.7V lithium batteries. Ensure both units are fully charged before first use. Connect the appropriate charging cables (not specified in product details, assume standard USB charging) to a power source.

4.2. Connecting the Receiver

1. Identify the receiver unit. It features a 6.35mm (1/4 inch) plug.
2. Plug the receiver directly into the 6.35mm input jack of your mixer, amplifier, or active speaker. The receiver's plug can swivel for optimal positioning.

Figure 4.2.1: The GT-5 receiver connected to a mixer, demonstrating its plug-and-play functionality.

Figure 4.2.2: Detail of the receiver's swivel plug, allowing for flexible connection angles.

4.3. Powering On and Synchronization

1. Turn on the receiver by pressing its power button. The display should illuminate.
2. Turn on the transmitter by pressing its power button.
3. The system uses IR sync to download the frequency from the receiver to the transmitter. Ensure both units are in close proximity (within a few inches) and facing each other's IR windows (if present, otherwise ensure general proximity).
4. Press the "SYNC" button on the receiver (or follow specific synchronization instructions if provided with the physical product) to initiate frequency pairing. The RF indicator on both units should show a stable connection once synchronized.
5. If interference occurs, you can change the frequency. The system offers 16 selectable channels. Refer to the operating section for frequency adjustment.

Figure 4.3.1: The GT-5 transmitter attached to an electric blowpipe, ready for use.

5. Operating Instructions

5.1. Using the Microphone

Once the transmitter and receiver are synchronized, the system is ready for use. The transmitter is designed to be attached to an instrument, such as an electric blowpipe.

- Ensure the microphone is positioned correctly to capture the instrument's sound effectively.
- Monitor the audio output from your mixer/speaker to adjust volume levels as needed.
- Maintain a line-of-sight operating range of up to 40 meters between the transmitter and receiver for optimal signal quality. Obstacles can reduce this range.

5.2. Changing Frequencies

If you experience interference or need to operate multiple GT-5 systems simultaneously, you can change the operating frequency.

1. On the receiver, use the channel selection buttons (usually labeled CHR or similar, or up/down arrows) to cycle through the 16 available frequencies.
2. After selecting a new frequency on the receiver, perform the IR synchronization process again (as described in Section 4.3) to pair the transmitter with the new frequency.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the transmitter and receiver. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the system in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Care:** For optimal battery life, avoid fully discharging the batteries frequently. If storing for

extended periods, charge the batteries to approximately 50% every few months.

- **Avoid Moisture:** Protect the units from water and excessive humidity.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound output	◦ Receiver not powered on. ◦ Transmitter not powered on. ◦ Not synchronized. ◦ Receiver not properly connected to mixer/speaker. ◦ Low battery.	◦ Ensure both units are powered on. ◦ Perform IR synchronization (Section 4.3). ◦ Check receiver connection and volume levels on mixer/speaker. ◦ Charge both units.
Interference or static	◦ Other wireless devices operating on the same frequency. ◦ Obstacles between transmitter and receiver. ◦ Operating range exceeded.	◦ Change to a different frequency (Section 5.2). ◦ Ensure clear line-of-sight between units. ◦ Reduce distance between transmitter and receiver.
Short battery life	◦ Batteries not fully charged. ◦ Aging batteries.	◦ Ensure full charge before use. ◦ Consider replacing batteries if performance degrades significantly over time.

8. Specifications

General System Specifications:

- **Frequency Range:** Region dependent
- **Audio Transmission:** Digital wireless
- **Audio Sampling Mode:** 48KHz
- **Selectable Frequencies:** 16 pre-set channels
- **ID Code:** Digital ID code for interference prevention
- **Operating Range:** Up to 40m (line-of-sight)
- **Power Supply:** 3.7V Lithium battery (for both units)

Receiver Specifications:

- **Modulation Mode:** pi/4 DQPSK
- **Latency:** <6ms
- **Frequency Response:** 60Hz - 15KHz ± 2dB
- **Total Harmonic Distortion:** <0.8% (1KHz)
- **Signal/Noise Ratio:** >92dB
- **Receiving Sensitivity:** -92dBm
- **Output:** 6.35mm plug
- **Continuous Use:** >6 hours
- **Dimensions:** 185 x 20 x 10mm

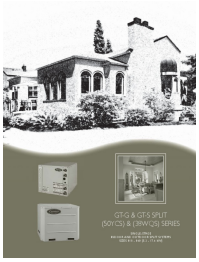
Transmitter Specifications:

- **Modulation Mode:** pi/4 DQPSK
- **Transmitter Power:** 10mW
- **Sensitivity:** -47 dB ± 2dB
- **Frequency Change:** IR sync
- **Microphone Type:** Condenser
- **Microphone Dimension:** Φ14 x 5.0mm
- **Continuous Use:** >6 hours
- **Dimensions:** 125 x 40 x 20mm

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact ACEMIC customer service directly. Keep your proof of purchase for warranty claims.

Related Documents - GT-5

	ACEMIC V1 Wireless Transmitter System User Manual User manual for the ACEMIC V1 wireless transmitter and receiver system, detailing setup, operation, specifications, and troubleshooting for cameras and smartphones.
	ACEMIC Q4 Wireless Microphone FCC Compliance and Warning Information Detailed FCC compliance and warning information for the ACEMIC Q4 Wireless Microphone, including guidelines for preventing interference and safe operation.
	Carrier GT-G & GT-S Split Systems: Technical Guide for 50YCS & 38WQS Series Explore the Carrier GT-G and GT-S Split Systems (50YCS & 38WQS Series), single-stage indoor and outdoor geothermal heat pumps. This technical guide covers features, performance data, specifications, and installation details for residential HVAC applications.
	EXEDY Clutches & Flywheels 2013-14 Catalog Explore the EXEDY 2013-14 catalog featuring a comprehensive range of performance racing clutches and flywheels. Learn about EXEDY's commitment to excellence, advanced design and inspection processes, and their diverse product lines including Stage 1 Organic, Stage 2 Cerametallic, Stage 3 Hyper Single, Stage 4 & 5 Multi Plate, and Carbon Series clutches.

	[QA1 5223 Strut Tower Brace Installation Guide for 2005-2014 Ford Mustang GT] Step-by-step installation instructions for the QA1 5223 Strut Tower Brace, designed for 2005-2014 Ford Mustang GT models. Includes required tools, disclaimer, warranty, and contact information.
	[Keyence GT Series Digital Contact Sensors: Features and Specifications] Explore the Keyence GT Series of general-purpose digital contact sensors, highlighting their ease of use, durability, error-free operation, and cost reduction benefits. This document details sensor head and amplifier unit specifications, applications, and optional accessories.