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› ACEMIC PR/8-ST4 Portable Wireless Microphone User Manual

VITOPAL PR 8ST4

User Manual: ACEMIC PR/8-ST4 Portable Wireless Microphone

Model: PR 8ST4

INTRODUCTION

The ACEMIC PR/8-ST4 is a portable wireless microphone system designed for wind instruments such as saxophones, trumpets, trombones, and tubas. It features PLL synthesized technology for stable frequency transmission, antenna diversity for extended range, and an LCD display for easy monitoring of RF/AF levels and channel information. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance of your device.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Receiver
- 1 x Microphone
- 1 x Audio cable
- 1 x Power Adapter
- 1 x User Manual
- 1 x Aluminium box

Note: A 1.5V AA battery is required for the transmitter and is not included in the package.



Image: Overview of the ACEMIC PR/8-ST4 wireless microphone system components, including the receiver, microphone, audio cable, power adapter, user manual, and the aluminum carrying case.

PRODUCT FEATURES

- **PLL Synthesized:** Pre-set 100 selectable frequencies for stable and interference-free operation.
- **Antenna Diversity:** Guarantees maximum range up to 80 meters (approximately 262 feet) for reliable signal reception.
- **LCD Display:** Clearly shows RF level, AF level, current channel, and frequency for easy monitoring.
- **Patented Design:** Features a rubber cover to protect the wind instrument during attachment.
- **Instrument Specific Design:** Optimized for use with saxophones, trumpets, trombones, and tubas.

SETUP GUIDE

1. Receiver Setup

1. **Placement:** Place the receiver on a stable, flat surface, away from large metal objects or other electronic devices that may cause interference.
2. **Connect Power:** Connect the provided power adapter to the DC 9V/500mA input on the receiver and plug it into a standard electrical outlet.
3. **Connect Audio Output:** Connect one end of the 6.35mm audio cable to the "Audio Output" jack on the receiver. Connect the other end to the input of your mixer, amplifier, or audio interface.
4. **Extend Antennas:** Fully extend the two antennas on the receiver for optimal signal reception.



Image: Rear view of the ACEMIC PR/8-ST4 receiver, highlighting the power input and 6.35mm audio output jack, along with the antenna connections.

2. Microphone (Transmitter) Setup

1. **Install Battery:** Open the battery compartment on the microphone transmitter. Insert one 1.5V AA battery, ensuring correct polarity (+/-). Close the compartment securely.
2. **Attach to Instrument:** Carefully attach the microphone's clip to the bell of your saxophone or other compatible wind instrument. Ensure the microphone head is positioned to capture sound effectively without obstructing playing. The rubber cover helps protect the instrument's finish.



Image: The ACemic PR/8-ST4 microphone transmitter securely clipped onto the bell of a saxophone, demonstrating its intended use and placement.

OPERATING INSTRUCTIONS

1. **Power On Receiver:** Press the power button on the receiver. The LCD display should illuminate.
2. **Power On Microphone:** Press and hold the power button on the microphone transmitter until the indicator light turns on.
3. **Frequency Pairing:** The receiver and transmitter should automatically pair. If they do not, or if you experience interference, you may need to manually select a frequency. Refer to the "Frequency Selection" section below.
4. **Adjust Volume:** Adjust the volume knob on the receiver to achieve the desired output level for your mixer or amplifier. Start with a low volume and gradually increase it to avoid sudden loud sounds.
5. **Echo Effect (if applicable):** If your model includes an echo effect, there will be a dedicated control on the microphone or receiver. Adjust this to your preference.
6. **Mute Function:** The microphone transmitter may have a mute switch. Use this to temporarily silence the microphone without turning it off.
7. **Power Off:** To power off, press and hold the power button on both the microphone transmitter and the receiver until their indicators turn off.

Frequency Selection

The ACEMIC PR/8-ST4 offers 100 selectable frequencies. If you encounter interference or wish to change the operating channel:

- On the receiver, locate the frequency selection buttons (usually "UP" and "DOWN" or "SET").
- Press the "SET" button (or equivalent) to enter frequency selection mode.
- Use the "UP" and "DOWN" buttons to cycle through available frequencies. Observe the LCD display for changes.
- Once a desired frequency is selected, the receiver will automatically transmit this frequency to the microphone for pairing. Ensure the microphone is powered on and within range for successful synchronization.
- Confirm successful pairing by checking the RF/AF indicators on the receiver.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the surfaces of the receiver and microphone. Do not use liquid cleaners or abrasive materials.
- **Battery Replacement:** When the battery indicator on the microphone transmitter shows low power, replace the AA battery promptly to ensure uninterrupted performance. Always use fresh, high-quality batteries.
- **Storage:** When not in use for extended periods, remove the battery from the microphone transmitter to prevent leakage. Store the system in its original aluminum box in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Handling:** Handle the microphone and receiver with care. Avoid dropping them or subjecting them to strong impacts.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output from receiver.	<ul style="list-style-type: none">• Receiver or microphone not powered on.• Microphone battery is dead or low.• Receiver not connected to mixer/amplifier.• Volume on receiver or mixer/amplifier is too low.• Microphone is muted.• Frequency mismatch between receiver and microphone.	<ul style="list-style-type: none">• Ensure both receiver and microphone are powered on.• Replace microphone battery.• Check audio cable connection to mixer/amplifier.• Increase volume on receiver and mixer/amplifier.• Deactivate mute function on microphone.• Perform frequency synchronization (see "Frequency Selection").
Interference or poor sound quality.	<ul style="list-style-type: none">• Operating too far from receiver.• Obstacles blocking signal (walls, metal objects).• Interference from other wireless devices.• Antennas not fully extended.	<ul style="list-style-type: none">• Reduce distance between microphone and receiver.• Ensure clear line of sight between microphone and receiver.• Change to a different frequency (see "Frequency Selection").• Fully extend receiver antennas.
Microphone not pairing with receiver.	<ul style="list-style-type: none">• Microphone or receiver not in pairing mode.• Incorrect frequency selected.• Battery low in microphone.	<ul style="list-style-type: none">• Ensure both devices are powered on and ready for pairing.• Manually select a new frequency on the receiver and allow the microphone to synchronize.• Replace microphone battery.

SPECIFICATIONS

Category	Parameter	Value
Comprehensive Performance	Modulation Mode	FM
	Dynamic Range	>100dB
	Frequency Response	60Hz-17KHz±3dB
	Total Harmonic Distortion	<0.5% at 1KHz
	Signal/Noise Ratio	≥108dB
Receiver	Receive Sensitivity	-110dBm (sinad ≥30dB)
	Signal/Noise Ratio	>105dB
	Power Supply	DC9V/ 500mA
Transmitter	RF Power	10mW
	Microphone Type	Condenser
	Directivity	Cardioid
	Deviation	±48KHz
	Antenna	1/4 wave Length wire type
	Battery Voltage	1.5V (1x1.5V AA Battery)
General	Power Consumption	Approx. 10 hours (battery-dependent)
Material	Microphone Clip	Rubber

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the manufacturer, ACEMIC, or the seller, VITOPAL, directly. Details regarding specific warranty periods and service procedures are typically outlined in the product's warranty card or on the manufacturer's official website.

Please retain your proof of purchase for any warranty claims.