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## Phenyx Pro PTU-2U

# Phenyx Pro PTU-2U Wireless Microphone System User Manual

Model: PTU-2U | Brand: Phenyx Pro

## 1. INTRODUCTION

The Phenyx Pro PTU-2U is a professional-grade true diversity dual UHF wireless microphone system designed for stable transmission and exceptional sound quality. Ideal for stages, live shows, church worship, weddings, DJ gigs, and outdoor events, this system offers robust performance and versatile functionality.



Figure 1: Phenyx Pro PTU-2U Wireless Microphone System.

The system features state-of-the-art true diversity circuitry to minimize interference and signal dropouts,

ensuring unimpeded reception. With 1000 selectable frequency groups, it allows for multi-set operation in complex RF environments. The handheld microphones are equipped with special dynamic polar pattern cartridges for pristine, lush, and sensational sound, effectively filtering out pops, clicks, and unwanted ambient noises.

Video 1: Official introduction to the Phenyx Pro PTU-2U system, highlighting its key features and design.

## 2. Box CONTENTS

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

- 1 x dual-channel wireless metal receiver
- 2 x UHF handheld microphones
- 4 x antennas
- 1 x 1/4" audio cable
- 1 x power adapter
- 2 x anti-rolling rings
- 4 x AA batteries (for 16hrs long hour use)
- 1 x user manual

# ALL-IN-ONE PACKAGE

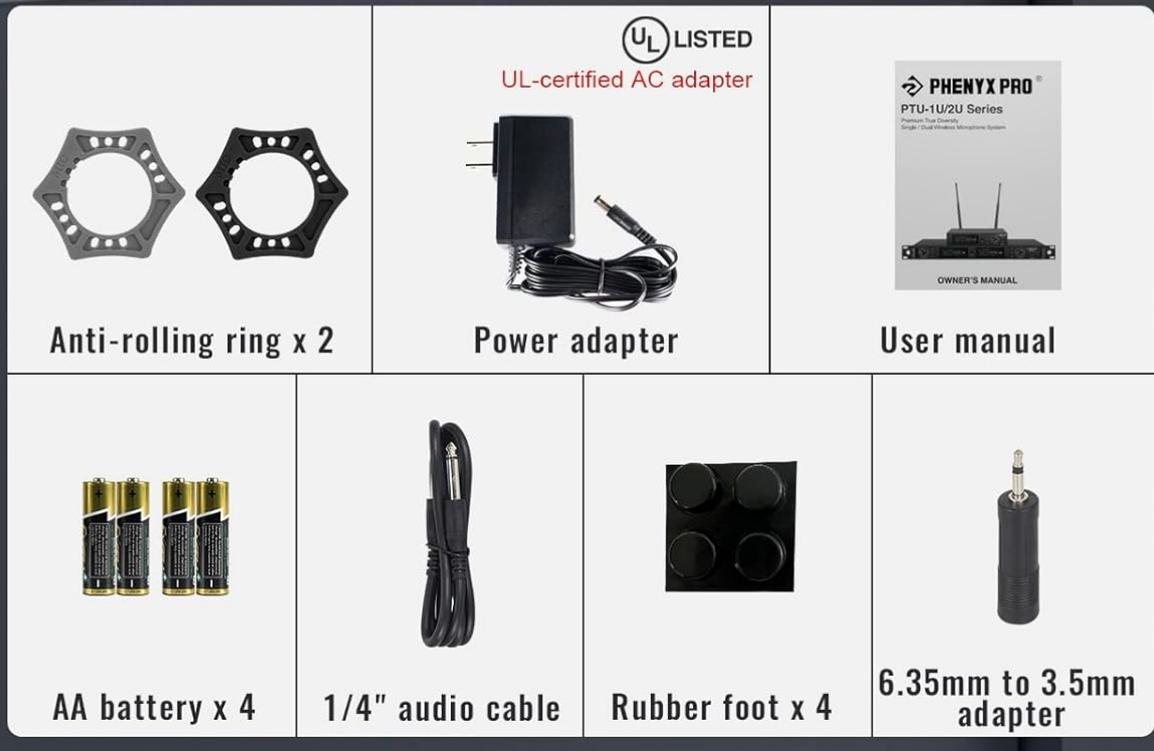
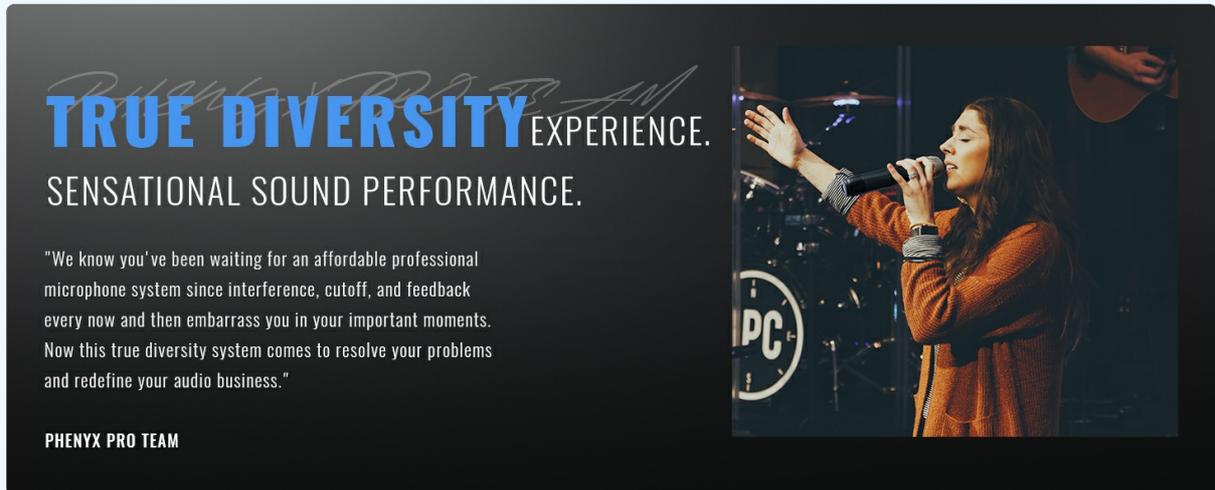


Figure 2: All components included in the Phenyx Pro PTU-2U package.

## 3. KEY FEATURES

- **Professional-Grade Wireless Performance:** Dual channel UHF band (530 - 580MHz) with true diversity circuitry for stable transmission and reception.
- **1000 Selectable Frequency Groups:** Allows multi-set operation and avoids interference.
- **Long-Range Operation:** Up to 300 – 328ft line of sight with quick IR synchronization.
- **Sensational Sound:** Dynamic polar pattern cartridges for pristine audio, filtering pops and ambient noises.

- **Powerful Functions:** Auto scan for best frequency, squelch control, and lock functions.
- **Sturdy Build:** Heavy-duty all-metal housing for both receiver and microphones.
- **Versatile Application:** Suitable for stages, live shows, church worship, wedding, DJ gigs, and outdoor events.



**TRUE DIVERSITY** EXPERIENCE.  
SENSATIONAL SOUND PERFORMANCE.

"We know you've been waiting for an affordable professional microphone system since interference, cutoff, and feedback every now and then embarrass you in your important moments. Now this true diversity system comes to resolve your problems and redefine your audio business."

PHENYX PRO TEAM

Figure 3: The true diversity system ensures sensational sound performance by minimizing interference and cutoffs.

## 4. SETUP

### 4.1. Receiver Setup

The dual-channel wireless metal receiver is designed for durability and ease of use. It features an IR window, volume controls, XLR & 1/4" outputs, and four antenna ports.

# PHENYX PRO BUILT LIKE A TANK



Figure 4: Heavy-duty metal construction of the receiver and microphones.

Connect the four antennas to the corresponding ports on the rear of the receiver. Ensure they are oriented upwards for optimal reception. Connect the power adapter to the receiver and a power outlet. Use the included 1/4" audio cable or XLR cables to connect the receiver's audio outputs to your mixer, PA system, or other audio equipment.

## 4.2. Microphone Setup

Each UHF handheld microphone requires two AA batteries (included). Unscrew the bottom part of the microphone to access the battery compartment. Insert the batteries, ensuring correct polarity. The microphones feature a comfortable matte handle and an informative LCD display.

# PROFESSIONAL-GRADE MICROPHONE



**Comfortable Matte Handle**  
Informative LCD & Rugged Material



**RF Power Switch**  
HI for stabler signal transmission. LO  
for power saving on the backstage.



**ON/MUTE/OFF Button**  
Go Through Rigorous Button Tests

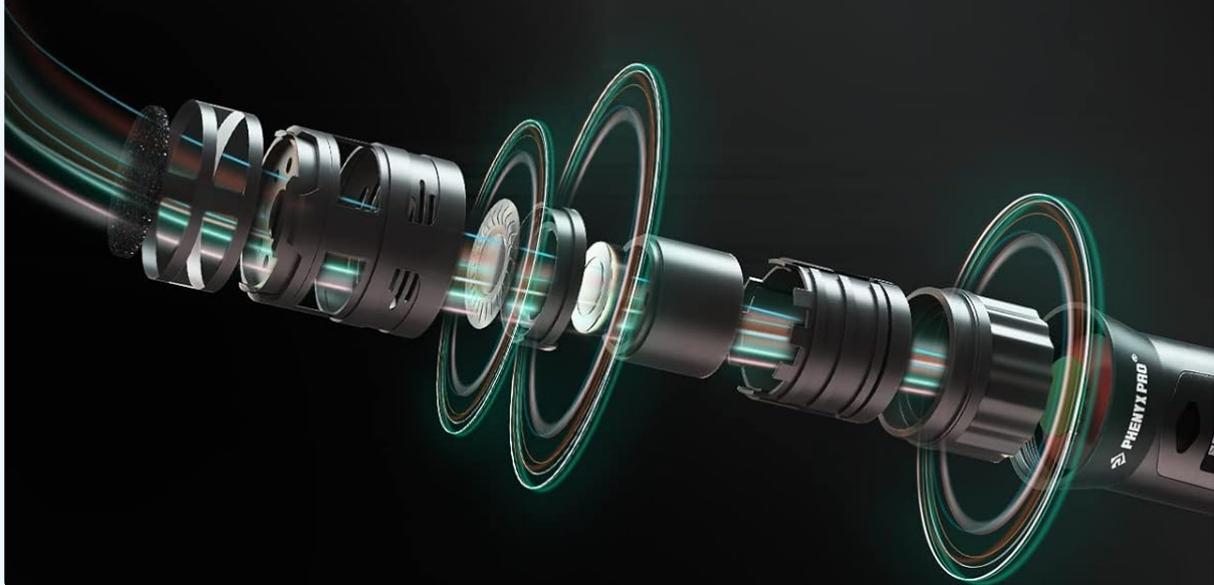


Figure 5: Detailed view of the handheld microphone features.

## 4.3. Initial Connection and Pairing

The system utilizes IR synchronization for easy pairing. Turn on both the receiver and the microphones. On the receiver, use the auto scan function to find the best available frequency. Once a frequency is selected, align the IR window of the microphone with the IR sensor on the receiver to synchronize them. The display on both units will confirm successful pairing.



Figure 6: Receiver functions including IR Sync and Auto Scan for optimal frequency selection.

Video 2: Demonstrates the ease of integration and highlights the quality and features of the system.

## 5. OPERATING INSTRUCTIONS

### 5.1. Frequency Selection and Control

The PTU-2U system offers 1000 adjustable UHF frequencies, providing flexibility and interference-free operation. Use the auto scan feature on the receiver to automatically navigate through the complex RF environment and locate the best frequency. The SQL (Squelch) setting allows you to adjust the squelch level for white noise cancellation, effectively delivering minimum feedback and cutoffs.

Figure 7: The advanced receiver features auto scan to find the best frequency and SQL setting for noise cancellation.

### 5.2. Microphone Usage

The handheld microphones are designed for optimal sound reproduction. They feature an ON/MUTE/OFF button for easy control. An RF Power Switch on the microphone allows for stable signal transmission or power saving in backstage environments (HI for stronger signal, LO for power saving).

Video 3: Demonstrates the fantastic, crisp, and clear sound quality with no dropouts.

### 5.3. Optimizing Performance

To ensure the best performance and minimize interference:

- **Hold Your Mic Properly:** Do not cover the bottom of the transmitter with your hands to avoid signal blockage.
- **Place the Antenna Correctly:** Orient the receiver's antennas upward and adjust their angle parallel to the microphones for optimal reception.
- **Ensure Line of Sight:** Maintain a direct line of sight between the transmitter and receiver. Remove any metal obstructions for smoother sound and fewer interruptions.

# WIRELESS TIPS



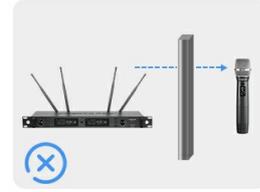
## Hold Your Mic Properly

Do not cover with your hands the bottom of the transmitter where the signal is sent to avoid the signal block.



## Place the Antenna Correctly

Orient the receiver's antennas upward. For optimal reception, adjust their angle parallel to the microphones.



## Ensure Line of Sight

Maintain a direct line of sight between the transmitter and receiver. Remove any metal obstructions for a smoother sound and fewer interruptions.

Figure 8: Important tips for optimizing wireless microphone performance.

Video 4: User review highlighting the balanced feel and ease of handling of the microphones.

## 6. MAINTENANCE

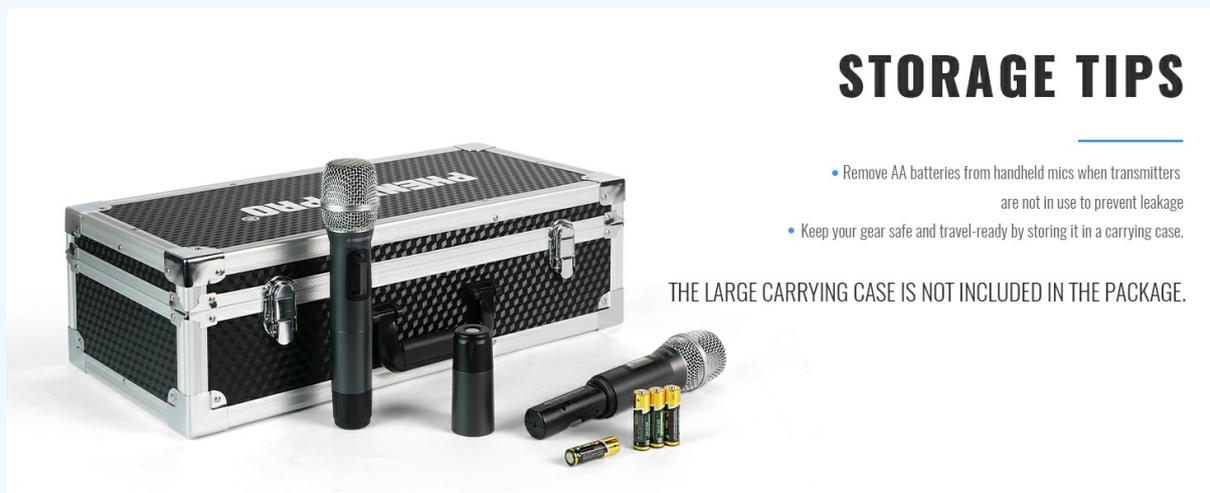
Proper maintenance ensures the longevity and optimal performance of your Phenyx Pro wireless microphone system.

### 6.1. Battery Care

Always remove AA batteries from handheld microphones when transmitters are not in use to prevent leakage and potential damage to the microphone's internal components.

### 6.2. Storage

Keep your gear safe and travel-ready by storing it in a carrying case. Note that a large carrying case is not included in the package.



## STORAGE TIPS

- Remove AA batteries from handheld mics when transmitters are not in use to prevent leakage
- Keep your gear safe and travel-ready by storing it in a carrying case.

THE LARGE CARRYING CASE IS NOT INCLUDED IN THE PACKAGE.

Figure 9: Essential storage tips to protect your wireless microphones.

## 7. TROUBLESHOOTING

If you encounter issues with your Phenyx Pro PTU-2U system, consider the following:

- **Interference/Dropouts:** Utilize the receiver's auto scan function to find a clear frequency. Ensure proper antenna placement and maintain line of sight between the microphones and receiver.
- **Noise:** Adjust the SQL (Squelch) setting on the receiver to reduce white noise. Ensure microphones are held properly to avoid handling noise.
- **Range Issues:** Verify line of sight. In congested RF environments, consider adding an active antenna distributor system like the Phenyx Pro PAS-225X to extend coverage.



Figure 10: An active antenna distributor can extend wireless range in challenging environments.

Video 5: A user review discussing the solid feel and quality sound, which can be helpful for troubleshooting perceived issues.

## 8. SPECIFICATIONS

Attribute	Value
Item Weight	7.39 pounds
Package Dimensions	20.8 x 10 x 4.6 inches
Country of Origin	China
Item model number	PTU-2U
Batteries	4 AA batteries required. (included)
Color Name	Black
Compatible Devices	TV, Audio Mixer, PA System, Karaoke Machine, Speaker
Connector Type	3.5 mm Jack, XLR
Material Type	Sponge
Size	2 Handheld Mic
Battery type	Alkaline
Power Source	Battery Powered

## **9. WARRANTY & SUPPORT**

Phenyx Pro products are crafted with premium components and precision engineering, ensuring trusted quality and lasting reliability. We stand firmly behind every product we make.

For warranty information, technical support, or customer service inquiries, please refer to the official Phenyx Pro website or contact their customer support directly. Contact details are typically provided in the user manual included in your product package.