

 **PHENYX PRO**®

# PTU-52A | 52B

Phenyx Pro PTU-52 Dual UHF Wireless  
Microphone System  
Features 30 Selectable Frequency Sets



 **PHENYX PRO**®

[www.phenyxpro.com](http://www.phenyxpro.com)

Designed in U.S. Made in China



**OWNER'S MANUAL**



*Thank you for purchasing the PHENYX PRO PTU-52  
Dual UHF Wireless Microphone Set.  
Please read this manual carefully to  
ensure proper use and operation, and keep it for future reference.*

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# System Description

## Box Contents

- 1 x Dual channel UHF wireless receiver with mixed XLR and 1/4" outputs
- 2 x Antenna
- 4 x AA battery
- 1 x Power adapter
- 1 x Audio cable
- 1 x User's manual
- 1 x Carrying case

### **PTU-52A:**

- 2 x UHF wireless handheld microphones

### **PTU-52B:**

- 1 x UHF wireless handheld microphone
- 1 x UHF wireless bodypack
- 1 x Headset microphone
- 1 x Lavalier microphone

## System Overview

The Phenyx Pro PTU-52 is a dual channel UHF wireless microphone system with sleek design and adjustable frequency setup. It combines quality sound, simple setup, and intuitive interface for excellent audio performance right out of the box. The cardioid polar pattern of the microphone capsule effectively capture and transmit sound without feedback and unwanted ambient noise. The system is equipped with 30 selectable frequency sets that allows up to 30 systems to be used at the same time (To achieve best result, please do not use more than 15 units simultaneously). The PTU-52 is ideal for public speaking, conference meeting, singing, churches and outdoor events. Operating distance is up to 200 ft in wide open space.

# Technical Support & Warranty Information

### **Our warranty to you:**

Phenyx Technology ("Phenyx") warrants Phenyx products against evident defects in material and workmanship for a period of one year from the date of original purchase for use. This warranty is valid exclusively in the US and applies only to the original owner. If you discover a defect covered by this warranty, Phenyx will repair or replace the product at our sole discretion using new or refurbished components. Performance of repairs or replacements under this Warranty is subject to registration of your product at [www.phenyxusa.com/registerproduct](http://www.phenyxusa.com/registerproduct).

### **Product failures not covered by this warranty:**

This warranty covers defects in manufacturing that arise from the correct use of the device. It is limited to defects in materials or workmanship and does not cover electrical or mechanical damage resulting from abuse, misuse, unauthorized modification, lack of reasonable care, extreme heat, cold, damage due to natural forces, or corrosive environments. This warranty does not cover the normal wear and tear on covers, housing, connectors, and accessories.

### **Limits of liability:**

If your Phenyx product fails or does not perform as warranted, your sole recourse shall be to replace or repair it as described above. Phenyx will not be liable to you or anyone else for any damages that result from the failure of this product. These damages include, but are not limited to, the following: lost profits, lost savings, lost data, damage to other equipment, and incidental or consequential damages arising from the use of or inability to use this product. **IN NO EVENT PHENYX SHALL BE LIABLE FOR MORE THAN THE AMOUNT OF YOUR PURCHASE PRICE, NOT TO EXCEED THE CURRENT LIST PRICE OF THE PRODUCT.**

### **How to obtain service under this warranty:**

If you are receiving a system that is defective or you have any questions regarding operation or warranty cover, please contact us at [support@phenyxpro.com](mailto:support@phenyxpro.com) with any questions or concerns and a Phenyx Pro representative will contact you to provide assistance. You can also reach out to us through Facebook page: [www.facebook.com/phenyxusa/](http://www.facebook.com/phenyxusa/) or our official website: [www.phenyxpro.com](http://www.phenyxpro.com)

## Specifications

Frequency range	500Mhz - 590Mhz
Frequency stability	<± 30 ppm
Audio dynamic range	> 90dB
T.H.D	< 0.5%
Frequency response	40Hz~15KHz±3dB
Output plug	XLR balance, 1/4" unbalance plug
output voltage	1/4" 0-300mV
Operation temperature	-10°C~+50°C

### Receiver

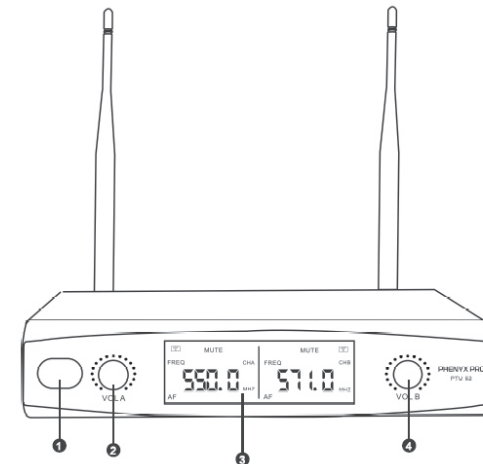
Antenna jack	TNC50Ω
Rated power	4W
S/N.	> 98dB(1KHz-A)
mirror frequency rejection	> 80dB
spurious reduction	> 80dB
RF sensitivity	> 5dBu
Power voltage	DC13.5V, power adapter

### Transmitter

RF output power	≤ 10mW
Modulation mode	FM
Frequency adjustment mode	automatic frequency adjustment
Maximum frequency deviation	75KHz
Battery life	8 hours

## Receiver for PTU-52

### Front Panel



① **Power Switch**

Press the button for 1 sec to turn on the receiver and press it again to turn it off

② **Volume A control**

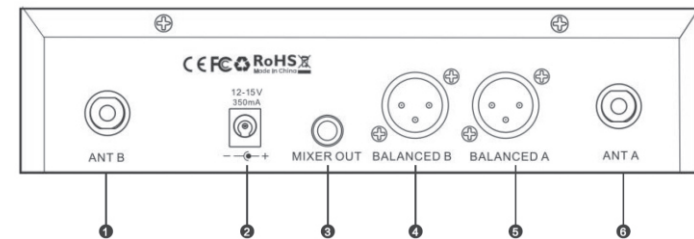
Adjust the volume output of sound from CH1

③ **LCD display**

④ **Volume B control**

Adjust the volume output of sound from CH2

### Back Panel



① **Antenna B**

② **Power jack**

Connect AC/DC adapter to receiver

③ **1/4" Audio output jack**

Connect the audio cable from this jack to the input port of amplifier, mixer, or other PA system

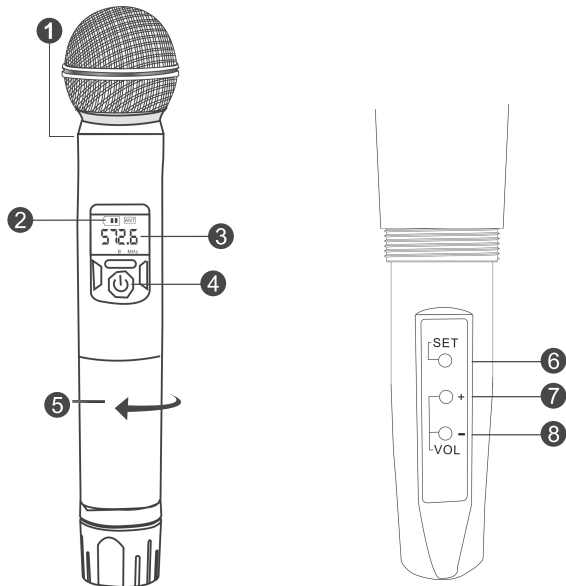
④ **Balanced XLR output for CH2**

⑤ **Balanced XLR output for CH1**

⑥ **Antenna A**

**Handheld Microphone**

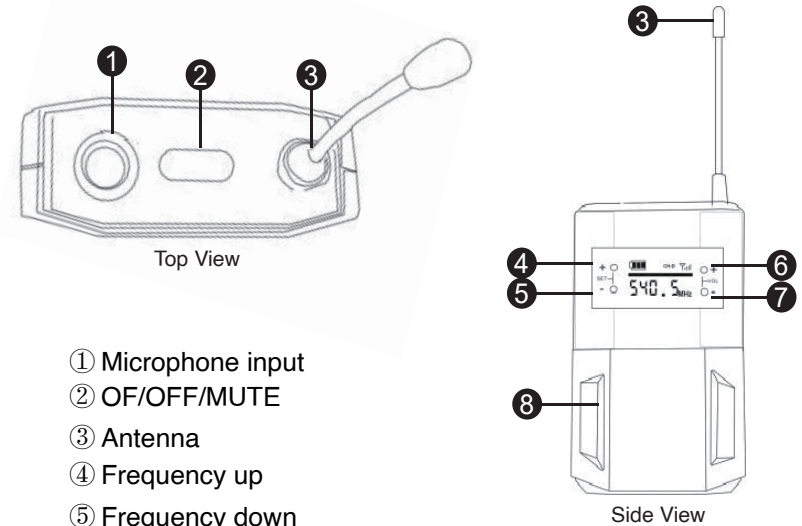
- ① **Microphone capsule**
- ② **LCD battery power display**
- ③ **LCD frequency channel display**
- ④ **ON/OFF/MUTE switch**  
Press this switch to turn on, turn off or mute the microphone.
- ⑤ **Battery cover**
- ⑥ **SET button**  
Press SET button to change frequency of the handheld mic
- ⑦ **Volume increase**  
Press "+" to increase volume of the handheld mic
- ⑧ **Volume decrease**  
Press "-" to decrease volume of the handheld mic



If the battery power icon indicates that the battery power is low, the batteries must be replaced to maintain normal operation. Unscrew battery cover and press SET button to change frequency of the handheld microphone. The receiver will automatically pair with the handheld within seconds (pairing distance is less than 4ft).

**Bodypack**

The Phenyx UHF bodypack is to be used with the Phenyx lavalier microphone & headsets.



- ① Microphone input
- ② OF/OFF/MUTE
- ③ Antenna
- ④ Frequency up
- ⑤ Frequency down
- ⑥ Volume up
- ⑦ Volume down
- ⑧ Battery Compartment

**Set Up :**

- 1 - Secure the bodypack to clothing, belt or pocket.
- 2 - (a) For a lavalier microphone, dip the microphone to clothing about 1 foot under the mouth. (b) For a headset, install headset comfortably on head so the microphone can be placed close to the mouth.
- 3 - Connect the microphone audio connector to the bodypack microphone input(1)
- 4 - Turn the bodypack on by pressing the the ON/OFF/MUTE Button.

# Operation Instructions

## Setup

- 1 - Install fresh batteries in the transmitters (refer to the section relative to the specific transmitter you are using)
- 2 - Connect the AC power adapter to a wall outlet and to the back of the receiver
- 3 - Screw antenna A,B in, and position them 60 degrees apart from each other
- 4 - Connect one of the three outputs available at the back panel to the next stage of your system. Typically, use the 1/4" output to connect to unbalanced equipment such as consumer level receivers, amplifiers, and mixers. Connect to professional equipment using the XLR outputs (cable not included)
- 5 - Making sure the volume of your speakers is off, turn on the receiver and the transmitters. The LCD display turns on and the "MUTE" disappears, indicating that the corresponding transmitter is paired with the receiver. The AF signal indicates the presence of an audio signal coming from the transmitter
- 6 - Unscrew the battery compartment and press SET button to adjust frequency. The LCD display on the receiver will change accordingly and pair up with the transmitter automatically. Please aim the microphone transmitter to the receiver and the distance between them should not be more than 4ft away receiver and the distance between them should not be more than 10ft away
- 7 - Turn The volume of your speaker back on and start increasing the volume of the transmitters until proper volume is achieved

## Operation

For better result, keep the transmitter at least 2' away from the receiver but within the transmitter's range (60m/200ft). Keep the transmitters in a direct line of sight with the receiver whenever possible. Electronics devices such as mobile phones, radios, and other transmitting devices may interfere with the wireless system transmitters. Please keep transmitters and receiver away from those devices and other possible interfering sources.