



PHENYX PRO
www.phenyxpro.com
Designed in US Made in China

PHENYX PRO[®]

PTU-6000

Selectable Frequency UHF Eight-channel Wireless
Microphone System



OWNER'S MANUAL

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.

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 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/ or our official website: www.phenyxpro.com

*Thank you for purchasing the PHENYX PRO PTU-6000
This booklet includes a description of features and a step-by-step
guide to operate this unit. Please read this manual carefully to
ensure proper use and operation, and keep this for future reference.*

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System Description

Box contents

- 1 x 8-channel UHF wireless receiver with XLR and mixed ¼" outputs
- 4 x antenna
- 8 x UHF wireless microphone
- 8 x anti-rolling ring
- 1 x Power adapter
- 1 x ¼" audio cable
- 1 x User's Manual
- 16 x AA batteries

System Overview

Phenyx Pro PTU-6000 wireless microphone system delivers superior sound quality and professional features. It is designed for a wide range of professional application with 8x40 selectable frequency channels, automatic frequency scanning, Tone Lock squelch circuit, and smooth transmitter IR pair up, ideal for professional setup in occasions like live shows, studio, weddings, church, DJs, conference meetings, public address etc. Working distance is up to 100m/328ft operating distance in wide open space. For longer distance, please avoid metal blocks, multiple walls, and other electronics devices.

Specifications

• Overall System

Carrier frequency range (Depends on local regulations)	520MHz - 603MHz
Frequency Stability	0.003%
Dynamic Range	>105dB
Frequency Response	50Hz-18kHz
Audio Output Level	¼ interface: 0-500mV; XLR Interface: 0 – 500mV
Working distance	100m/328ft
XLR Interface	0-500mV
Operating temperature	-10°C~+50°C

• Receiver

Output impedance	XLR connector: 200Ω
RF sensitivity	-105dBm
Image rejection	>110dB
Spurious rejection	>90dB
Power	5W
Power requirement	DC 12- 15V, Current: 300mA, External power adaptor
Dimension	210mm x 160mm x 45mm
Weight	775g (27.3oz)

• Handheld Transmitter

Modulation Mode	FM
Maximum Deviation	75kHz
Handheld dimension	249mm x 51mm diameter (9.8 x 2 in)
Handheld weight	306g (10.8oz) (without batteries)
Power	2 AA alkaline batteries
Battery life	About 8 hours with original batteries

Operating Instructions

Set Up

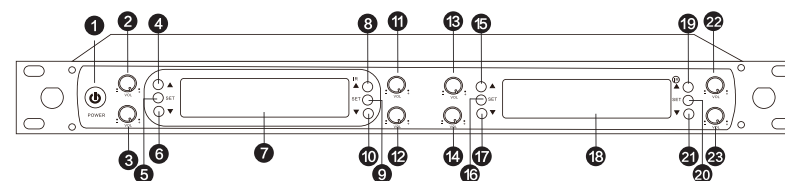
- 1 – Install fresh batteries in the transmitters (fresh to the section relative to the specific transmitter you are using).
- 2 – Connect the AC power adapter to a wall outlet and to the back of the receiver.
- 3 – Screw all eight antennas in.
- 4 – Connect one of the nine outputs available at the back panel to the next stage of your systems. Typically, use the X"output to connect to unbalanced equipment such as consumer level receivers, amplifiers, and mixers. Connect to professional equipment using the XLR output (cable not included).
- 5 – Make sure the volume of your speaker is off, turn on the receiver and the transmitters. Press SET button for IR synchronization. For auto scan feature, long press SET button until a circle shown on the LCD screen, then wait until the auto scan process complete and a frequency is set. The system will automatically select the least-interference best signal channel. For manual frequency selection feature, press UP or DOWN button select desired group number and channel number. Phenyx Pro recommends using the auto scan function for optimal operation result.
- 6 – Short press up or down buttons to select the desired channel (channel LCD display will flash), then press SET to confirm channel. Press up or down button again to select desired frequency (channel LCD display will change). For auto scan feature, long press SET button until a circle shown on the LCD screen, then wait until the auto scan process complete and a frequency is set.
- 7 – Press SET again after frequency selection, and you will see LCD screen shows "F ---" status. Aim the transmitter's IR window at the receiver's IR window, and they will pair up automatically within several seconds. Once the pair up is completed, channel and group number will be shown on the LCD screen of the transmitters, which should match that on the receiver.
- 8 – You can use multiple receivers at the same time, and set all the transmitters to different channels. Theoretically, up to 40 receivers (8 x 40 frequencies) can be used at the same time. Phenyx Pro recommends no more than 20 receivers to be used together to achieve optimal results.
- 9 – For lock function, long press UP button and you will see L ON on the screen, which means that the system is in lock status. Long press UP button again "LOF" on the screen, which means that the system is unlocked and you can change frequency.

Operation

- 1 – The receiver antennas should be kept away from any metal surface.
- 2 – Before inserting the batteries, please make sure that they are inserted according to the correct polarity.
- 3 – For better result, keep the transmitters at least 2' away from the receiver but within the transmitter's range (100m/328ft). Keep the transmitters in a direct line of sight of the receiver whenever possible.
- 4 – Electronics devices such as mobile phones, radios, and other transmitting devices may interfere with the wireless system transmitters. Please keep transmitter and receiver away from those devices and other possible interfering sources.

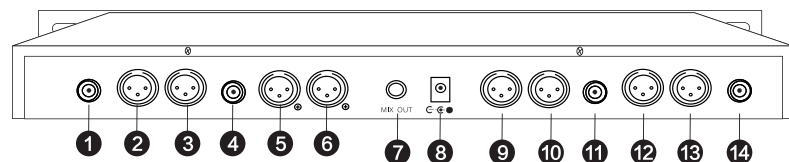
Receiver

Front Panel



- ① **Power Button**
- ② **Volume CH1**
- ③ **Volume CH2**
- ④ **Up Button A**
Short press the up button once to select CH1, then press up/down button to select desired frequency
- ⑤ **SET Button A**
Long press the SET button to scan the environment and auto select the best available frequency for CH1/CH2. Then press SET button again for synchronization
- ⑥ **Down Button A**
Short press the down button once to select CH2, then press up/down button to select desired frequency
- ⑦ **LCD Display for CH1 - CH4**
- ⑧ **Up Button B**
Short press the up button once to select CH3, then press up/down button to select desired frequency
- ⑨ **SET Button B**
Long press the SET button to scan the environment and auto select the best available frequency for CH3/CH4. Then press SET button again for synchronization
- ⑩ **Down Button B**
Short press the up button once to select CH4, then press up/down button to select desired frequency
- ⑪ **Volume CH3**
- ⑫ **Volume CH4**
- ⑬ **Volume CH5**
- ⑭ **Volume CH6**
- ⑮ **Up Button C**
Short press the up button once to select CH5, then press up/down button to select desired frequency
- ⑯ **SET Button C**
Long press the SET button to scan the environment and auto select the best available frequency for CH5/CH6. Then press SET button again for synchronization
- ⑰ **Down Button C**
Short press the up button once to select CH6, then press up/down button to select desired frequency
- ⑱ **LCD Display for CH5 - CH8**
- ⑲ **Up Button D**
Short press the up button once to select CH7, then press up/down button to select desired frequency
- ⑳ **SET Button D**
Long press the SET button to scan the environment and auto select the best available frequency for CH7/CH8. Then press SET button again for synchronization
- ㉑ **Down Button D**
Short press the up button once to select CH8, then press up/down button to select desired frequency
- ㉒ **Volume CH7**
- ㉓ **Volume CH8**

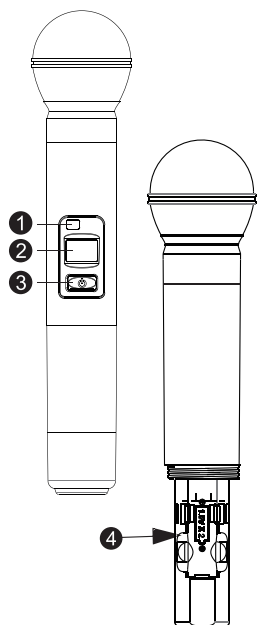
Back Panel



- | | | |
|---------------------|------------------|------------------|
| ① Antenna D | ② XLR Output CH8 | ③ XLR Output CH7 |
| ④ Antenna C | ⑤ XLR Output CH6 | ⑥ XLR Output CH5 |
| ⑦ 1/4" Mixed Output | ⑧ AC Power | ⑨ XLR Output CH4 |
| ⑩ XLR Output CH3 | ⑪ Antenna B | ⑫ XLR Output CH2 |
| ⑬ XLR Output CH1 | ⑭ Antenna A | |

Transmitters

Handheld Microphone



- ① IR Window (Play to the infrared transmitter signal to the frequency synchronization)
- ② LCD display
- ③ Power switch
- ④ Battery compartment

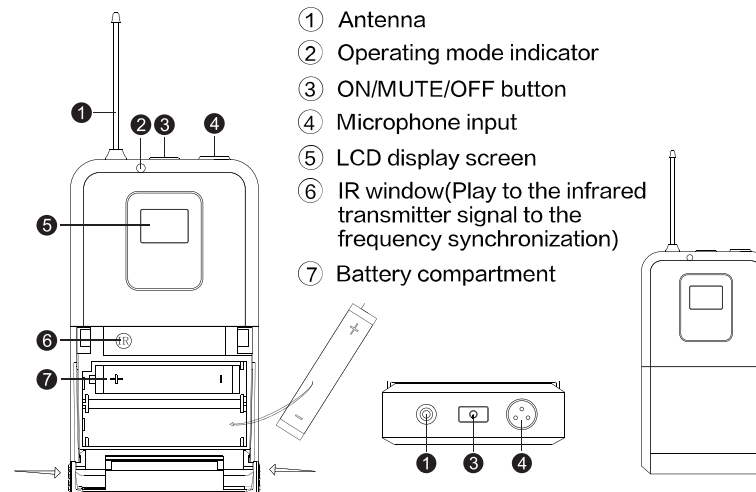
When turn on the transmitter, the battery power icon is on the right of the LCD display.

If the battery icon indicates that battery power is low, the batteries must be displaced to maintain normal operation.

There is a MUTE icon on the LCD display. When short press the power switch, the handheld transmitter will turn into MUTE status. Please press again to unmute the handheld microphone or long press the switch to turn the transmitter off.

Bodypack

You can add the bodypack transmitter below to this system. Please visit www.phenyxpro.com for compatible accessories. The Phenyx UHF bodypack is to be used with the Phenyx lavalier microphone and headsets.



- ① Antenna
- ② Operating mode indicator
- ③ ON/MUTE/OFF button
- ④ Microphone input
- ⑤ LCD display screen
- ⑥ IR window(Play to the infrared transmitter signal to the frequency synchronization)
- ⑦ Battery compartment

Set Up :

- 1- Secure the bodypack to clothing, belt or pocket.
- 2- (a) For a lavalier microphone, clip 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 (4)
- 4- Turn the bodypack on by press the ON/MUTE/OFF button. The operating mode indicator (2) will light up (green), indicating that the bodypack is on.
- 5- Press SET button on receiver. You will see LCD screen shows "IR---" status. Open the battery compartment cover, and aim the transmitter's IR at the receiver's IR window. Once the pair up is completed, you can see the same group and channel number display on the receiver screen and the bodypack screen.
- 6- Press up or down button to select the desired frequency, then align the two IR windows and press "SET" to confirm setting and pair up again.
- 7- Press (3) again, operating mode indicator will turn red, which indicates that bodypack is on MUTE. Long press (3) to turn off the bodypack.