

PHENYX PRO

PTV-1

**VHF DUAL WIRELESS
MICROPHONE SYSTEM**



PHENYX PRO
www.phenyxusa.com

DESIGNED IN U.S.
MADE IN CHINA

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:

Please contact us at service@phenyxusa.com with any questions or concerns about your product and a Phenyx representative will contact you to provide assistance.

Thank you for purchasing the PHENYX PTV-1 Dual Wireless Microphone System. Please read this manual carefully to ensure proper use and operation, and keep it for future reference.

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System Description

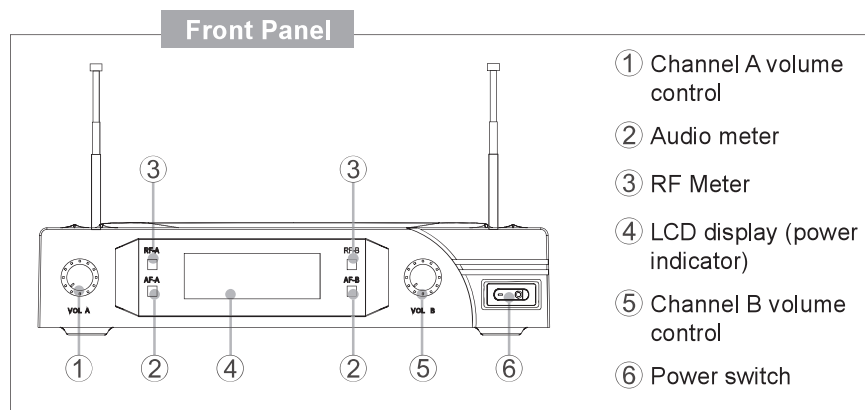
Box Contents

- Dual VHF Wireless receiver with mixed XLR and 1/4" outputs
- 2 Transmitters OR 1 Transmitter and 1 headset and 1 lavalier and 1 bodypack
- 3' Audio Cable (1/4" connectors)
- AC adapter
- Manual

System Overview

The PTV-1 is a dual wireless microphone system designed to offer great sound quality and ease of use in a compact package. It is very simple to set up and operate, and it is the perfect choice for public address, karaoke, live performances, interviews, sermons and many more. The signal from the microphones (either handheld, lavalier or headset, depending on the combination you purchased) is wirelessly transmitted to the receiver, which is connected to your amplifier, mixer or powered speakers with the included 1/4" cable or with a microphone cable with an XLR connector (not included).

Receiver



Specifications

Overall System

Carrier frequency range: VHF
(frequency of operation depends on local regulations)
Frequency Stability: 0.003%
Dynamic Range: >100dB
T.H.D: <0.5%
Frequency Response: 50Hz-18kHz
Outputs: XLR balanced mixed; 1/4" unbalanced mixed
Audio Output Level: 0-500mV
Range: 150' (*actual range depends on local conditions*)
Operating temperature: -10°C~+50°C

Handheld & Bodypack Transmitter

Modulation Mode: FM
Maximum Deviation: 75kHz
Size:
Handheld: 239 x 49 mm
Bodypack: 110 x 63 x 20 mm
Weight (without batteries)
Handheld: 181g
Bodypack: 66g
Power requirements: 2 AA alkaline or rechargeable batteries per transmitter
Battery life: about 8 hours

Receiver

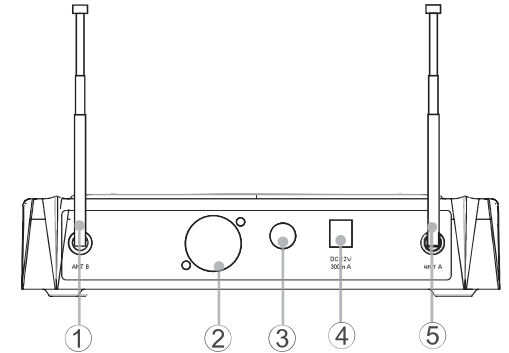
Power: ≤ 10mW
Power: 5W
S/N: >103 dB (1kHz-A)
Image Rejection: > 110dB
Spurious Rejection: > 90dB
Sensitivity: -105dBm
XLR Output:
Pin 1: Ground
Pin 2: (+)
Pin 3: (-)
Power: DC12~18V, Current: 400mA, External power adaptor

Troubleshooting Tips

ISSUE	REASON	SOLUTION
Transmitter battery indicator is rapidly flashing or continuously ON	The batteries are low	Replace with fresh batteries
A howling noise (also known as “feedback”) can be heard from the speakers	The microphone is too close to the speaker	Increase the distance between the microphone and the speaker Avoid pointing the microphone directly at the speaker
No sound coming to the receiver (AF LED does not light up)	The wireless transmitter is outside of the receiver’s range	Keep wireless microphone within operating range of the receiver
	The wireless transmitter is off or muted (switch set to “OFF” or “MUTE”)	Turn wireless microphone on (switch set to “ON”). Replace batteries if necessary
Sound reaches the receiver (AF LED lights up) but no sound coming from the receiver	Volume control too low	Turn up the output volume by turning the volume control knobs on the front of the receiver clockwise
	Output is not (or wrongly) connected	Verify all connections to the rest of your system. Try different connection cables if available

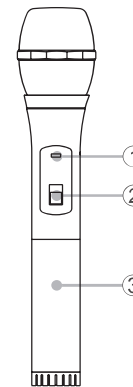
Back Panel

- ① Antenna B
- ② Balanced XLR output
- ③ Unbalanced ¼” output
- ④ DC input jack
- ⑤ Antenna A



Transmitters

Handheld Microphone



- ① Battery power indicator
- ② ON/MUTE/OFF switch
- ③ Battery compartment cover

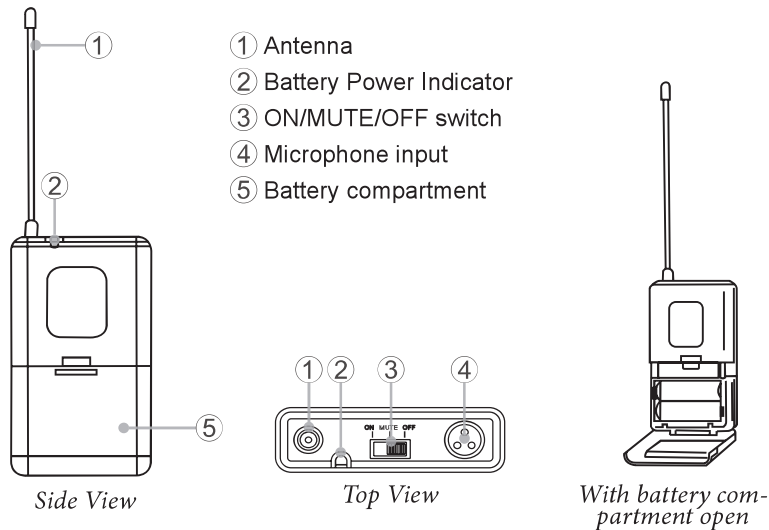
Under normal operation, the battery power indicator (1) will briefly light up when powering on the microphone.

If the battery power indicator (1) stays continuously on after powering on the microphone, the batteries must be replaced. To replace the batteries, proceed as follows:

- Unscrew the battery compartment cover (3) and set it aside
- After removing the old batteries, insert new ones, making sure to respect proper polarity
- Screw the battery compartment cover (3) back in place

Bodypack

The Phenyx VHF bodypack is to be used with the Phenyx lavalier microphones & headsets



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 sliding the the ON/MUTE/OFF switch to the "ON" position. The battery power indicator (2) will light up briefly, indicating that the batteries have sufficient power.

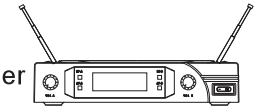
If the battery power indicator (3) stays continuously on after powering on the bodypack, the batteries must be replaced. To replace the batteries, proceed as follows:

- Open the battery compartment door by pushing on the door sides and pulling it open
- After removing the old batteries, insert new ones, making sure to respect proper polarity
- Close compartment by gently pushing the compartment door until it clicks

Operating Instructions

Set Up

- 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- Position the antennas 60° apart from each other as shown.
- 4- Connect one of the two outputs available at the back panel to the next stage in 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 output (cable not included).
- 5- Making sure the volume of your speakers is off, turn on the receiver and the transmitters. The "RF" LED turns on, indicating that the corresponding transmitter is paired with the receiver. Note that the number displayed (the channel number) is fixed and cannot be adjusted. The "AF" LED indicates the presence of an audio signal coming from the transmitter.
- 6- Turn the volume of your speakers back on and start increasing the volume of the transmitters until proper volume is achieved. The balance between the two microphones can be adjusted with the front panel volume controls.



Operation

For better results, keep the transmitters at least 2' away from the receiver but within the transmitter's range (150'). Keep the transmitters in a direct line of sight with the receiver whenever possible.

Transmitters can be used one at a time or simultaneously.

Use the MUTE position on the transmitter switch to silence the microphone without interrupting the pairing with the receiver, which could cause unwanted popping sounds.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.