



# PHENYX PRO<sup>®</sup>

## PAS-225

Phenylx Pro Professional UHF Antenna  
Distribution System with Directional Antenna Kit



## OWNER'S MANUAL



*Thank you for purchasing the Phenyx Pro PAS-225  
Professional UHF Antenna Distribution System with  
Directional Antenna Kit.*

*This manual includes a description  
of features and a step-by-step guide to operate this unit.  
Please read this manual carefully and keep this for future reference.  
For more information, please visit our website [www.phenxypro.com](http://www.phenxypro.com).*

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# System Description

## Box Contents

- 1 x PAS-225 Antenna distribution system receiver
- 2 x PAS-82 directional antennas
- 4 x DC power cords
- 10 x 21 in. BNC cables
- 2 x 9.5 ft. BNC cables
- 1 x Power adapter
- 1 x User's manual

## System Overview

The Phenyx Pro PAS-225 is an antenna distribution system that allows users to expand their wireless microphone system setup with ease. Not only can this system split antenna signals from one pair of antennas to multiple receivers, it can also amplify RF signals to compensate for the signal loss in the splitting process. With the amplified signals, this system can expand the operation range of normal microphone systems more than 160fts. A single PAS-225 system can connect up to five wireless systems and with the cascade function, you can connect multiple PAS-225 systems together to achieve large configurations.

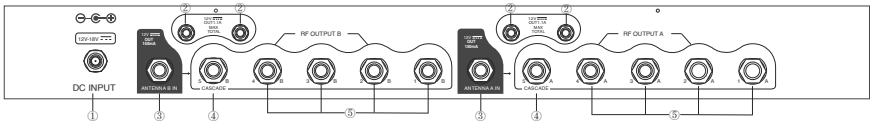
## Receiver

### Front Panel



① Power Button

### Back Panel



① DC INPUT

Connect the power adapter here to power the receiver.

② DC OUTPUT

Connect the power adapter here to power the receiver.

③ ANTENNA INPUT

Antenna input ports for channel A and B.

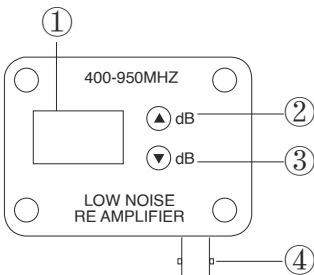
④ CASCADE OUTPUT

Cascade output port that can connect to extra PAS-225 systems.  
Or it can be used as a normal antenna signal output port .

⑤ RF OUTPUT

RF output port for channel A and B to connect to other wireless microphone systems.

### Directional Antenna



① DISPLAY SCREEN

② INCREASE SIGNAL GAIN

③ DECREASE SIGNAL GAIN

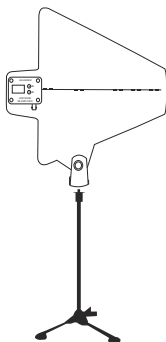
④ ANTENNA OUTPUT

Antenna output port to connect to the antenna input port on the PAS-225 receiver.

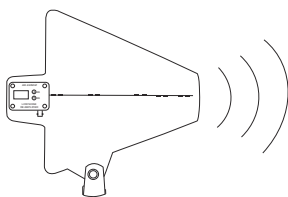
# Operation Instructions

## Setup

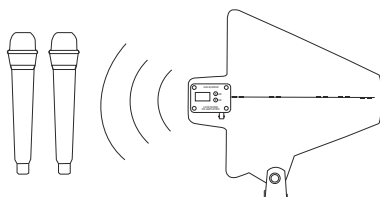
1. Connect the directional antenna to the tripod stand.



2. Use cables to connect the antennas to the PAS-225 receiver's antenna input ports.
3. Put the two antennas at least 1.5 meter away from each other and they should be higher than 1.8 meters. Also make sure there aren't any obstacles in the line of sight of the antennas (including audience)
4. Face the antenna towards the microphone/performers for the best signal stability.



(Picture 1: O correct)



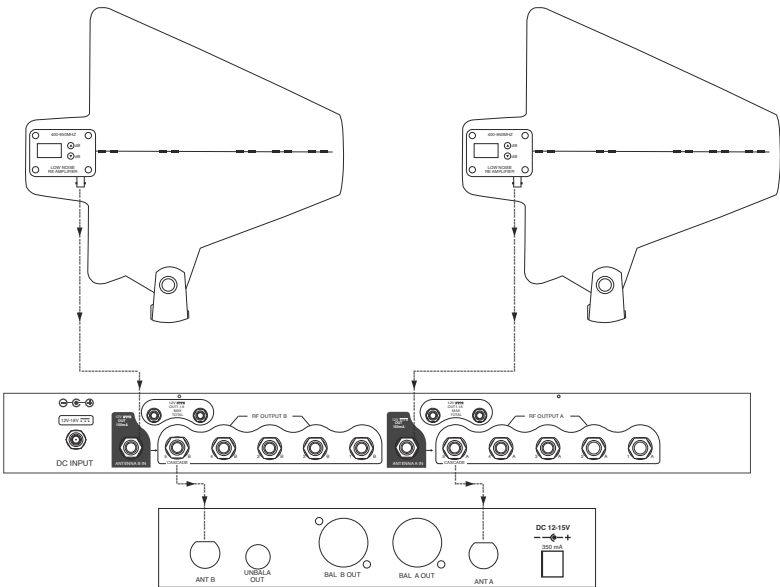
(Figure 2: X error)

5. Connect the antenna outputs from the PAS-225 receiver to the antenna inputs of the wireless microphone systems that you want.
6. Turn on the wireless microphone systems and the PAS-225 system and they are ready to go.

## Tips

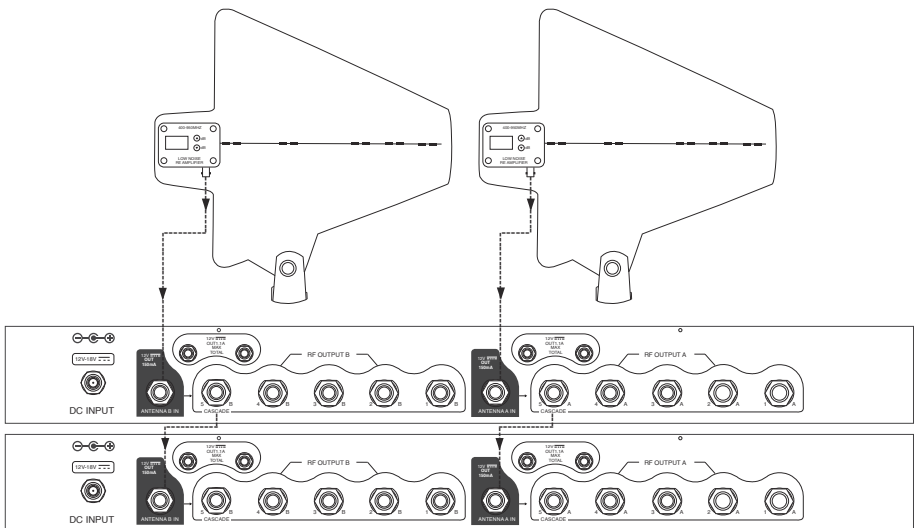
1. How to connect the the antenna system to my wireless system? Can I just use antenna outputs from one channel?

A: If your wireless system only has one antenna input, then using either antenna output is fine. If your wireless system has more than one antenna inputs, then it's recommended to use antennas output from two channels. Please refer to the graph below for sample setup with our PTU-71 system.



## 2. How to connect multiple PAS-225 systems together?

A: Please connect the cascade antenna output port (the first one output port of each channel) to the antenna input of the other PAS-225 systems. Please refer to the graph below.



## 3. My signal is still suffering or not improving at all. What should I do?

A: Please try to increase the antenna gain to see if the signal is improved or not. Note that the longer the cable length, the larger the signal loss in transmission. So if you are replacing cables with different lengths, please increase or decrease the signal gains accordingly. Also, please face the antenna towards the microphone/performer for better signal reception.

## Specification

### · Antenna

|                    |                    |
|--------------------|--------------------|
| Antenna Type       | Log periodic array |
| RF frequency range | 400-950 MHz        |
| Power requirement  | DC 10V             |
| Impedance          | 50Ω                |
| Connector Type     | BNC                |
| Antenna Gain       | 7.5-dBi            |

### · Receiver

|                       |               |
|-----------------------|---------------|
| Frequency range       | 400-950 MHz   |
| Antenna type          | BNC           |
| Impedance             | 50Ω           |
| Output external power | DC 12V, 800mA |

# Technical Support & Warranty Information

## **Our warranty to you:**

Phenyx Technology (“Phenyx”) warrants Phenyx products against evident de-fects 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 sub-ject 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/](https://www.facebook.com/phenyxusa/) or our official website: [www.phenyxpro.com](http://www.phenyxpro.com)





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