



PTM-11/22/33 Series

UHF Mono Mode

Single / Dual / Quad Wireless In-Ear Monitor System



USER MANUAL

IMPORTANT SAFETY INSTRUCTIONS

1. Read and follow these instructions carefully.
2. Only use attachments, accessories, and spare parts specified by the manufacturer.
3. Avoid exposing the product and its connections to liquids and electrically conductive objects that are not essential for its operation.
4. Do not operate near any heat sources, such as open flames, radiators, or other apparatus that produce heat.
5. Keep the power cord safe by preventing it from being walked on or pinched, especially at the plugs.
6. Do not use the apparatus during lightning storms, and unplug it when unused for a long period of time.
7. Any modifications not approved by the manufacturer for the product could result in personal injury or product failure.
8. Operate this product within its proper operating temperature range.



Caution: This symbol indicates the unit might have a risk of electric shock.



Caution: This symbol is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.



Caution: This symbol indicates possible risk of electric shock within the unit.



Caution: This symbol means the product must not be discarded as household waste, and should be delivered to an appropriate collection facility for recycling. Proper disposal and recycling helps protect natural resources, human health and environment. For more information on disposal and recycling of this product, contact your local municipality, disposal service, or shop where you bought this product.

IMPORTANT PRODUCT INFORMATION

Licensing: A ministerial license may be required to operate this equipment in certain areas. Consult your national authority for possible requirements. Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment. Licensing of PHENYX PRO wireless microphone equipment is the user's responsibility, and licensability depends on the user's classification and application, and on the selected frequency. PHENYX PRO strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing, and before choosing and ordering frequencies.

FCC Information

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.

*NOTE: 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 does not 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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

ICC Statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The term "IC" before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

Cet appareil contient des émetteurs/récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with ISSED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body

Cet équipement est conforme aux limites d'exposition aux rayonnements ISSED établies pour un environnement non contrôlé.

Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps

**Industry Canada ICES-003 Compliance
Label: CAN ICES-3 (B)/NMB-3(B)**

EU Directives

CE This product meets the Essential Requirement of all relevant European directives and is eligible for CE marking.

Meets essential requirements of the following European Directives:

WEEE Directive 2019/19/EU

RoHS Directive EU 2015/863

Note: Please follow your regional recycling scheme for batteries and electronic waste

Authorized European Representative



APEX CE SPECIALISTS LIMITED

6F East Union Street, Manchester, England, M16 9AE
United Kingdom
Email: info@apex-ce.com



APEX CE SPECIALISTS GmbH

Grafenberger Allee 277, 40237 Düsseldorf, Germany
Email: info@apex-ce.com

*Thank you for purchasing the Phenyx Pro PTM-11/22/33 Series.
For the best results and the utmost satisfaction with your new unit,
please read this manual carefully to ensure proper operation,
and keep it for future reference. For more information,
please visit our store: www.phenyxpro.com*

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System Description

System overview

The Phenyx Pro PTM-11/22/33 Series provides a convenient audio monitoring experience. No matter where you stand or how loud the rest of your band and the environment are, you can hear your crystal-clear monitor mix on stage while moving and dancing as you like. The beginner-friendly mono design immerses you in your content and frees you from wire entanglement on stage. The mono wireless transmitter features left/right inputs and left/right LOOP outputs to enable more connections and flexible setup. You can enjoy a rich personal monitoring experience in stages, gigs, bands, studios, etc.

System features

- Crystal-clear mono audio without latency lasts throughout your whole performance.
- Selectable UHF frequency design with one-touch selection for your desired frequency to avoid interference. (The PTM-11/22 has 50 adjustable frequency groups, and the PTM-33 has 25 frequencygroups.)
- Multiple stand-alone mixes (1 mix for PTM-11, 2 mixes for PTM-22, and up to 4 mixes for PTM-33) offer a flexible and diverse monitoring experience.
- The LOOP OUT design for your flexible routing operation.
- One transmitter base unit can add as many bodypack receivers as you need.
- The PAD button of the transmitter (only for PTM-11/22) lowers the input gain to prevent loud input sources from overloading and clipping the preamplifier.
- Fuss-free synchronization process through IR sync.
- Rugged-built receivers and bodypacks with a sleek design.
- Rack-mountable with brackets included in the package.
- Up to 164ft/50m free operation range.

System components

Your system comes with a combination of the following components.

Transmitter

PTM-11	Single In-Ear Monitor Transmitter
PTM-22	Dual In-Ear Monitor Transmitter
PTM-33	Quad In-Ear Monitor Transmitter

Receiver

PMR-2	Bodypack Receiver
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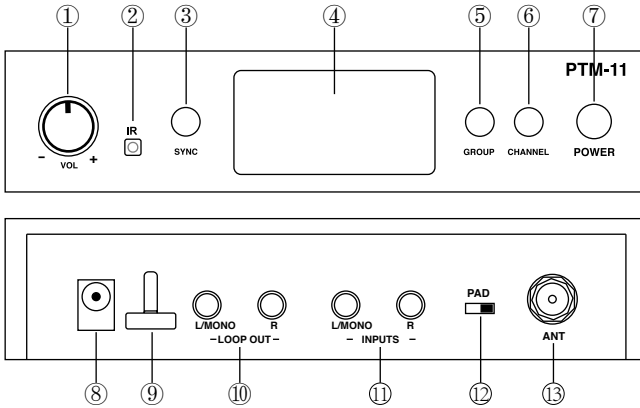
Accessories

ANTB-500	Antennas for 500MHz UHF Band
ANTB-900	Antennas for 900MHz UHF Band
PTA-01	Power Adapter
PTA-03	Carrying Case
	Earphone
	AA Batteries
	Antenna Rackmount Kit
	User's Manual

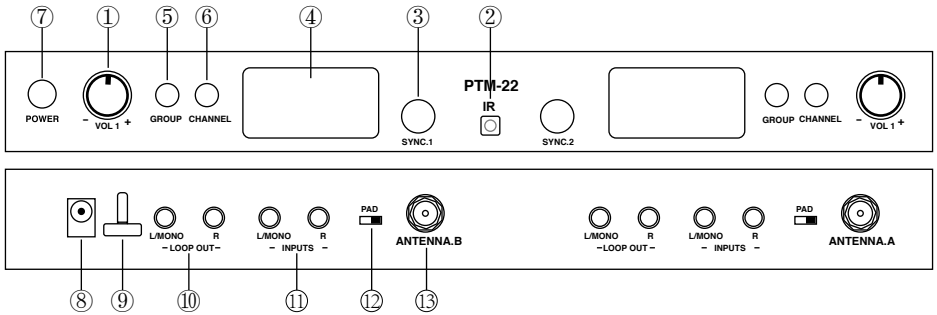
Functions of Parts

Transmitters

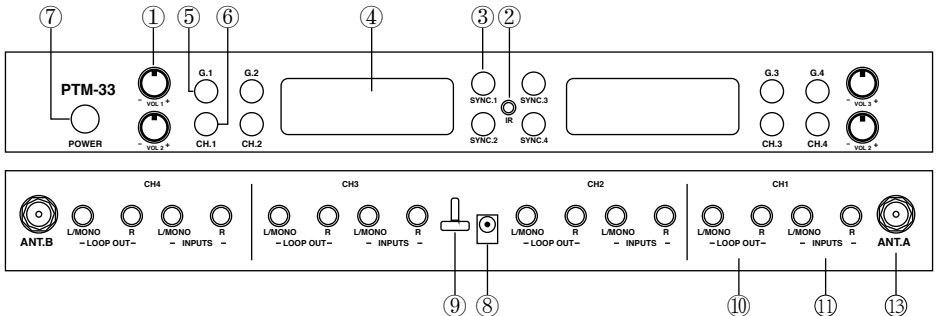
PMT-11



PMT-22



PMT-33

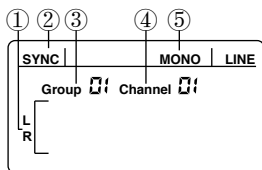


• Front panel

- ① **Volume control:** Adjust the input level of the audio signal from microphones, mixers, and other devices.
- ② **IR window:** For infrared synchronization setup.
 - *NOTE: Please short press (tap) the Sync button to initiate IR synchronization (The "Sync" indicator will flash on the LCD during the sync process and disappear when the synchronization is finished or fails due to a timeout).
- ③ **Sync button:** Short press (tap) this button to initiate the IR synchronization.
- ④ **LCD display:** Displays system information.
- ⑤ **Group button:** Short press (tap) this button to select the group/band number for a frequency.
- ⑥ **Channel button:** Short press (tap) this button to select the channel number for a frequency.
- ⑦ **Power button:** Short press (tap) this button to power the unit on, while long press it for 2 seconds to power the unit off. When it is on, the LCD screen and the power button light up.

• Rear panel

- ⑧ **Power jack**
- ⑨ **Adapter cord tie-off:** For managing cable.
- ⑩ **LOOP OUT jacks (TS, unbalanced):** Use the unbalanced 1/4" TS cable to connect the LOOP output jacks to send a copy of the audio signal to an external device, such as stage monitors, personal monitors, recording devices, etc.
- ⑪ **Audio Input jacks (TS, unbalanced):** Use the unbalanced 1/4" TS cable to connect the audio input jacks to the mixer monitor output or other signal-sending devices for pre-fader or monitoring post-fader monitoring.
- ⑫ **PAD switch (only for PMT-11/22):** Pad the input gain by 12 dB. The default setting of 0 dB will have no effect on gain. (The PMT-33 has no such function.)
- ⑬ **Antenna jack**

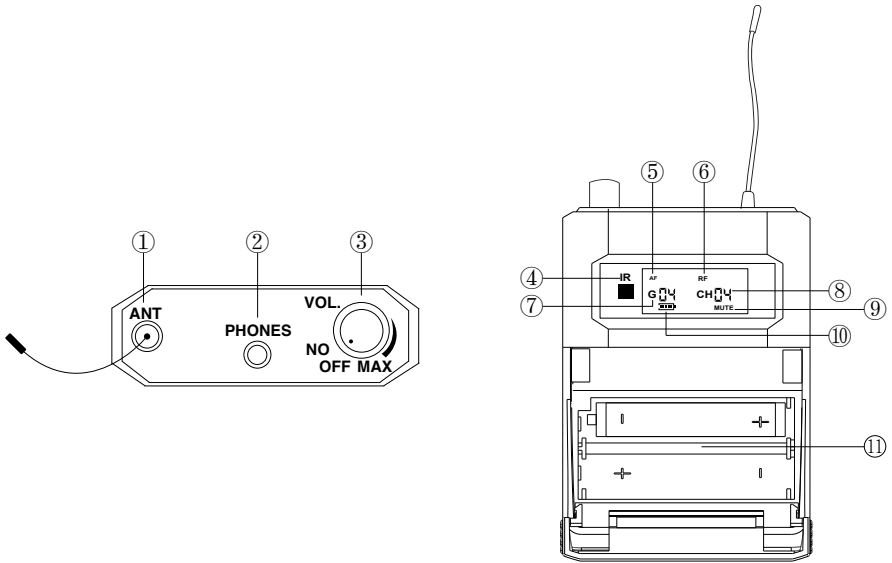


Transmitter display

- ① **AF signal indicator:** For indicating the input audio signal of the left and right inputs.
- ② **RF signal indicator:** The "Sync" indicator flashes during the IR synchronization process and disappears when it is finished or fails.
- ③ **Group number**
- ④ **Channel number**
- ⑤ **Mono indicator:** For indicating the mono mode.

Bodypack receiver

PMR-2



- ① **Antenna**
- ② **PHONE jack**
- ③ **Power knob:** Twist the knob to power the receiver on and off, and also to increase/decrease the volume.
- ④ **IR window:** For infrared synchronization setup.
*NOTE: Please vertically aim the IR window on the bodypack receiver to that of the transmitter for pairing them up.
- ⑤ **Audio signal indicator:** It flashes to indicate the audio signal level.
- ⑥ **RF signal indicator:** For indicating RF signal strength between the bodypack receiver and transmitter.
- ⑦ **Group number**
- ⑧ **Channel number**
- ⑨ **MUTE indicator:** To indicate that the receiver receives no RF signal. It appears when the bodypack receiver is not paired up with the transmitter successfully.
- ⑩ **Battery light:** For indicating the battery status.
- ⑪ **Battery compartment:** Install batteries with the correct polarity.

Operation Guidance

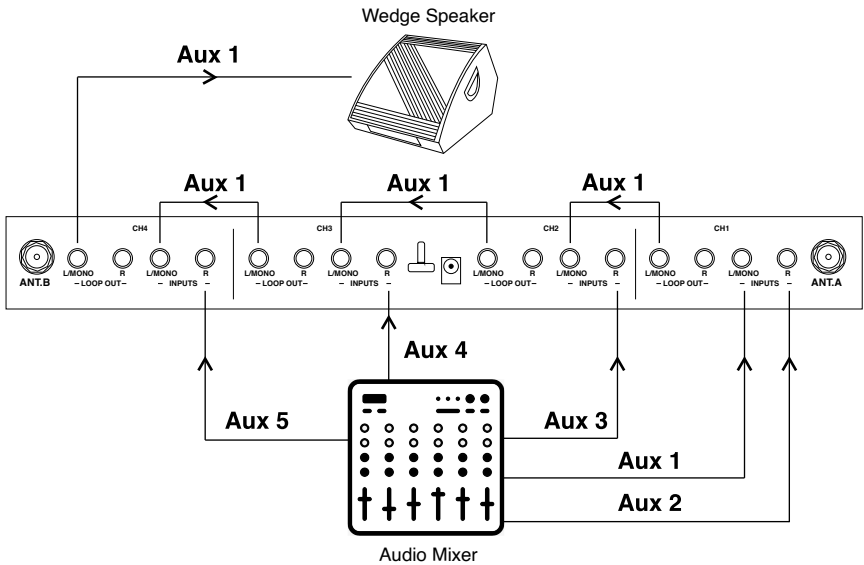
Step 1: Connect the transmitter and power it up

1 - Use 1/4" TS cables to connect the monitor/auxiliary outputs of the mixer or other signal-sending devices to the transmitter inputs.

***NOTE:** There are stereo inputs and outputs for the transmitter to mix different audio sources, but there is no stereo function that the transmitter sends signals to bodypack receivers. Please connect the L/MONO jack if you need to send only one mono signal.

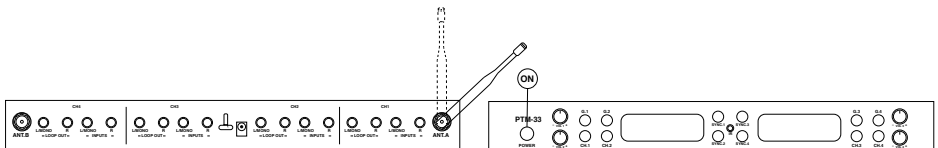
2 - Use 1/4" TS cables to connect the LOOP OUT jacks to signal-receiving devices.

***NOTE:** If you want to send a signal (e.g., AUX 1 signal) to all channel receivers, please connect the signal-sending device to a LOOP OUT left/right jack and then daisy chain this signal to other channels, according to the sample below.



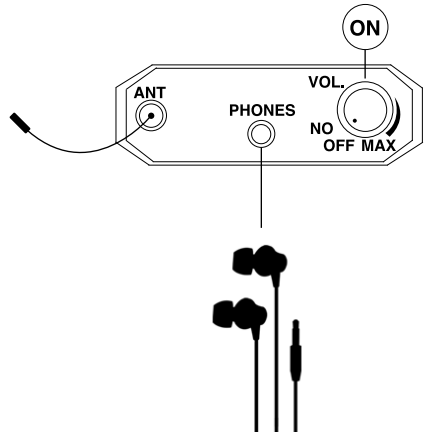
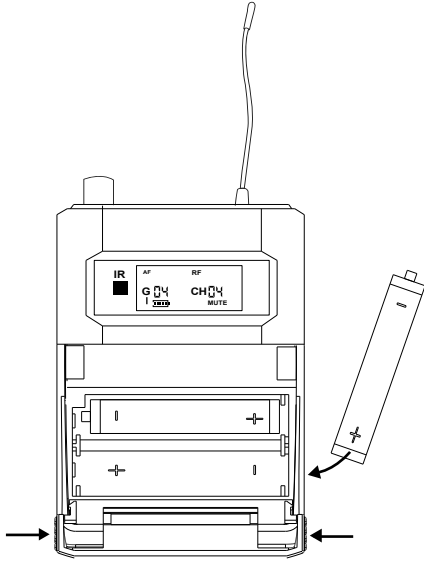
3 - Connect the antenna to the transmitter via the ANT jack.

4 - Connect the power supply to the transmitter via the power jack, and tap the power button to turn it on. And turn on other devices.



Step 2: Turn on the receiver

- 1 - Install fresh batteries with the correct polarity.
- 2 - Connect an earphone to the bodypack receiver.
- 3 - Twist the power knob to power on the bodypack and adjust the volume.

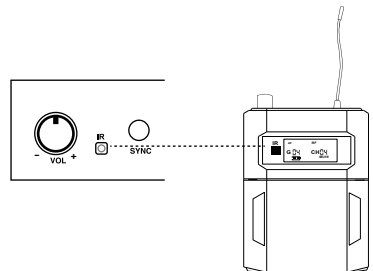
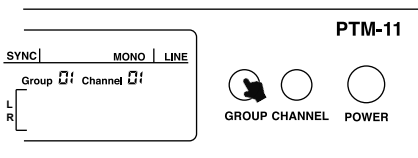


Step 3: Set up the transmitter

Short press (tap) the Group button and Channel button to select the desired frequency to operate.

Step 4: Pair up the transmitter and receiver

- 1 - Short press (tap) the Sync button to initiate the IR synchronization.
- 2 - Vertically aim the IR window of a bodypack receiver to that of the transmitter.



Troubleshooting

Problem	Solution
Distorted audio/static noises	<ul style="list-style-type: none">• Select another frequency to try again.• Place the transmitter higher or move it to another place.• Check the volume levels at the transmitter/receiver and verify that it is not too loud.• Make sure the batteries in the receiver are fresh.• Check that all cables are fully inserted.
No sound from a receiver	<ul style="list-style-type: none">• Adjust the volume level of the transmitter and receivers.• Check that the receiver is on and the earphone is properly connected to the receiver.• Make sure the transmitter and receivers are linked to the same group and channel; otherwise, pair them up again.• Connect a new earphone to the receiver.
High noise floor	<ul style="list-style-type: none">• Adjust the proper amount of gain of input audio signals
The MUTE indicator on the receiver display after synchronization	<ul style="list-style-type: none">• Vertically pair up the receiver and transmitter until the MUTE indicator disappears.• The MUTE indicator flashes to indicate cutoffs; it is better to change the frequency of the receiver and vertically pair it with the receiver again.

Specification

• System

Frequency Range	530 MHz-580 MHz; 902 Mhz-928 MHz (Depends on local regulations)
Transmitter Output Level	10 dBm
Operating Range	50 m/164 ft
Audio Frequency Response	50 Hz-16 KHz (+/-3 dB)
Harmonic Distortion	<1% (+/-30 KHz deviation)
Dynamic Range	>90 dB
Operating Temperature	-10°C ~ +50°C

• Transmitter

Max Audio Input Level	+6 dBV
Gain Adjustment Range	40 dB
Input Impedance	6.8 K Ω
Power Requirements	12-18 V DC, 350 mA

• Bodypack Receiver

Audio Output Level	80 mW
Sensitivity	90 dBm for 30 dB SINAD, typical
Power Requirements	2 AA alkaline or recharging batteries
Battery Life	>6 hours

• 500MHz Frequency Version Frequency List

PMT-11	Channel A	Group 1: 530.05 — 532.3 MHz	Each group has 10 channels with a 0.25MHz increment.
		Group 2: 532.55 — 534.8 MHz	
		Group 3: 535.05 — 537.3 MHz	
		Group 4: 537.55 — 539.8 MHz	
		Group 5: 540.05 — 542.3 MHz	
PMT-22	Channel A	Group 1: 530.05 — 532.3 MHz	
		Group 2: 532.55 — 534.8 MHz	
		Group 3: 535.05 — 537.3 MHz	
		Group 4: 537.55 — 539.8 MHz	
		Group 5: 540.05 — 542.3 MHz	
	Channel B	Group 6: 542.55 — 544.8 MHz	
		Group 7: 545.05 — 547.3 MHz	
		Group 8: 547.55 — 549.8 MHz	
		Group 9: 550.05 — 552.3 MHz	
		Group 10: 552.55 — 554.8 MHz	
PMT-33	Channel A	Group 1: 542.55 - 544.8 MHz	
		Group 2: 545.05 - 547.3 MHz	
		Group 3: 547.55 - 548.55 MHz	
	Channel B	Group 3: 548.8 - 549.8 MHz	
		Group 4: 550.05 - 552.3 MHz	
		Group 5: 552.55 - 554.8 MHz	
	Channel C	Group 6: 567.55 - 569.8 MHz	
		Group 7: 570.05 - 572.3 MHz	
		Group 8: 572.55 - 573.55 MHz	
	Channel D	Group 8: 573.8 - 574.8 MHz	
Group 9: 575.05 - 577.3 MHz			
Group 10: 577.55 - 579.8 MHz			

• 900MHz Frequency Version Frequency List

PMT-11	Channel A	Group 1: 902.35 — 904.6 MHz	Each group has 10 channels with a 0.25MHz increment.
		Group 2: 904.85 — 907.1 MHz	
		Group 3: 907.35 — 909.6 MHz	
		Group 4: 909.85 — 912.1 MHz	
		Group 5: 912.35 — 914.6 MHz	
PMT-22	Channel A	Group 1: 902.35 — 904.6 MHz	
		Group 2: 904.85 — 907.1 MHz	
		Group 3: 907.35 — 909.6 MHz	
		Group 4: 909.85 — 912.1 MHz	
		Group 5: 912.35 — 914.6 MHz	
	Channel B	Group 6: 915.35 — 917.6 MHz	
		Group 7: 917.85 — 920.1 MHz	
		Group 8: 920.35 — 922.6 MHz	
		Group 9: 922.85 — 925.1 MHz	
		Group 10: 925.35 — 927.6 MHz	
PMT-33	Channel A	Group 1: 902.35 - 904.6 MHz	
		Group 2: 904.85 - 907.1 MHz	
		Group 3: 907.35 - 908.35 MHz	
	Channel B	Group 3: 908.6 - 909.6 MHz	
		Group 4: 909.85 - 912.1 MHz	
		Group 5: 912.35 - 914.6 MHz	
	Channel C	Group 6: 915.35 - 917.6 MHz	
		Group 7: 917.85 - 920.1 MHz	
		Group 8: 920.35 - 921.35 MHz	
	Channel D	Group 8: 921.6 - 922.6 MHz	
Group 9: 922.85 - 925.1 MHz			
Group 10: 925.35 - 927.6 MHz			

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.phenyxpro.com

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.



PHENYX PRO®

www.phenyxpro.com

Made in China

Manufacturer: Guangzhou VILAN Technology CO., LTD.

Address: No.101 Wanggangdexing Road, Baiyun District, Guangzhou, China

After-sales Service E-mail: support@phenyxpro.com ; info@phenyxpro.com