

 **PHENYX PRO[®]**

PTM-10

Stereo & Mono Mode

Professional UHF 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 20cm between the radiator & your body.

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

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED 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



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Thank you for purchasing the Phenyx Pro PTM-10 Wireless In-Ear Monitor System. For the best results and 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.phennyxpro.com

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System Description

System overview

The Phenyx Pro PTM-10 passes the right of sound monitoring into your hands. It is a practical solution to block out excess stage noise and provide consistent sound wherever you go on stage, enabling stage arrangement, increasing freedom of movement, and enhancing sound performance. This system utilizes advanced circuit design to deliver steady signal and enhanced anti-interference capabilities, delivering pure, original sound quality. This IEM system features the stereo function to transmit undisturbed and separate mixing sound (up to 93% separation). It recreates a live stage-like immersive listening experience, frees you from wire entanglement, and offers you more options to control sound monitoring, ideal for stages, bands, gigs, studios, etc.

System features

- Mono mode or stereo mode, two selections.
- Clear, pure, distortion-free sound performance.
- Painless IR synchronization makes operation a piece of cake.
- 89 adjustable UHF frequency in 500/900 MHz bands for multiset operation.
- Up to 160 ft/50 m free operation range.
- The adapter cord tie-off renders manageable cables.
- The powerful receiver features multiple practical functions, including stereo/monoselection, balance, equalizer, limiter, and lock functions.
- Metal rackmount kit is included to provide the professional option.
- The black PVC carrying case to protect the system while in transit.

System components

Transmitter

PMT-1	In-Ear Monitor Transmitter
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Receiver

PMR-1	Bodypack Receiver
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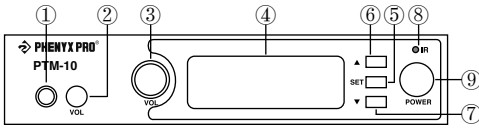
Accessories

ANTB-500	Antennas for 500 UHF Band
ANTB-900	Antennas for 900 UHF Band
PTA-ADP1	Power Adapter
PTA-CSE-10	Carrying Case
PME-1	Earphone
	AA Batteries
	Metal Rackmount Kit
	User's Manual

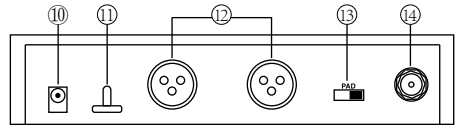
Functions of Parts

Transmitters

PMT-1



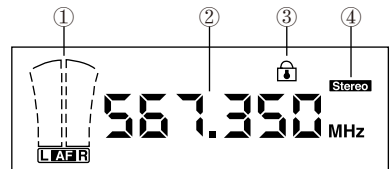
Front panel



Rear panel

- ① **Audio Output Jack (1/4 Inch TRS):** Connect to a headphone, earphone, or wedge speaker for direct monitoring.
- ② **Output Level Control:** Adjust the level of the output audio signal to the audio output jack (1/4 inch TRS, Balanced).
- ③ **Input Level Control:** Adjust the level of the input audio signal from microphones, mixers, and other devices.
- ④ **LCD Display:** Displays audio, RF, and system information.
- ⑤ **Set Button:** Short press (tap) this button for mode selection.
- ⑥ **Up Button:** Short press (tap) this button for frequency increment and menu setup.
- ⑦ **Down Button:** Short press (tap) this button for frequency decrement and menu setup.
- ⑧ **IR Window:** For infrared synchronization setup.
- ⑨ **Power Button:** Long press it for 2 seconds to power the unit on and off. When it is on, the LCD screen lights up.
- ⑩ **Power Jack**
- ⑪ **Adapter Cord Tie-off:** For cable management.
- ⑫ **Audio Input Jacks (XLR, Balanced):** Connect to mixer outputs or other audio sources for monitoring by the performers.
- ⑬ **PAD Switch:** Adjust output gain. Turn it on to cut gain and set it to (-12 dB). The default setting of 0 dB will have no effect on gain.
- ⑭ **Antenna Jack:** For connecting detachable antenna and transmitting signals to bodypack receivers.

- ① **AF Signal Indicator:** Indicates the input audio signal of the left and right channels.
- ② **Frequency Number:** Displays system frequency (varies depending on system frequency version).
- ③ **Lock Indicator:** Appears to indicate that the setting is locked and disappears to unlock.
- ④ **Mode Indicator:** Indicates the mono or stereo mode to output the audio signal.

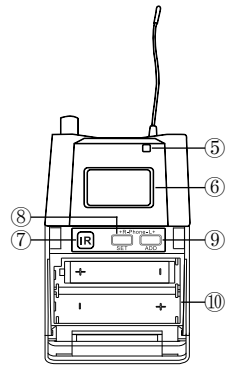
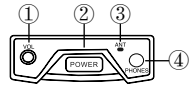


Transmitter display

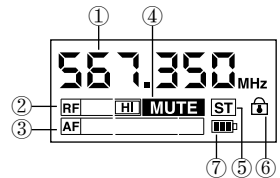
Bodypack receiver

PTM-1

- ① **Volume Control:** Twist the knob clockwise/counterclockwise to increase/decrease the volume.
- ② **Power Button:** Long press it for 2 seconds to power the unit on and off.
- ③ **Antenna**
- ④ **PHONE Jack**
- ⑤ **Battery Light:** Indicates the battery status. It lights green to indicate sufficient battery and lights red to indicate low battery.
- ⑥ **LCD Display:** Displays audio, RF, and system information.
- ⑦ **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.
- ⑧ **SET Button:** Short press (tap) it to enter menus for BAL function and FOC function. Long press it for 1 second to enter other functions (see page 6 for more details).
- ⑨ **ADD Button:** Short press (tap) it for menu setup.
- ⑩ **Battery Compartment:** Install batteries with the correct polarity.



- ① **Frequency Number:** Displays system frequency (varies depending on system frequency version).
- ② **RF Signal Indicator:** Indicates RF signal strength between the bodypack receiver and transmitter. "RF HI" indicates high RF signal level, and "RF LO" indicates low RF signal level.
- ③ **Audio Signal Progress Bar:** Flashes to indicate the audio signal level. When it is blank, the bodypack receiver receives no sound.
- ④ **MUTE Indicator:** Indicates the receiver receives no RF signal. It appears when the bodypack receiver is not paired up with the transmitter successfully.
- ⑤ **Stereo Mode Indicator:** "ST" appears to indicate the bodypack receiver receives a stereo audio signal. When it disappears, the bodypack receiver receives a mono audio signal.
- ⑥ **Lock Indicator:** Appears when the setting is locked and disappears when unlocked.
- ⑦ **Battery Indicator:** Indicates the real-time battery status.

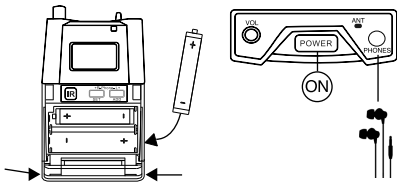
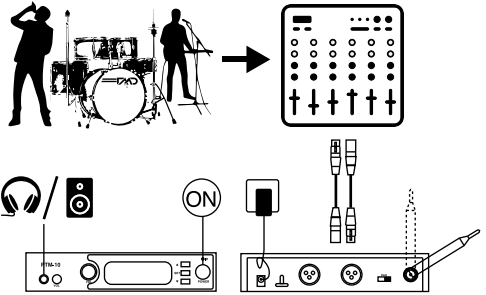


Receiver display

Operation Guidance

Step 1: Turn on the transmitter

- 1 - Connect the antenna to the transmitter via the ANT jack.
- 2 - For stereo audio transmission, connect the audio source to the stereo audio input jacks of the transmitter via 6.35mm/XLR cables. For mono transmission, connect to the left audio input jack of the transmitter.
- 3 - Turn on other devices. Connect the power supply to the transmitter via the power jack, and long press the power button for 2 seconds to turn it on.



Step 2: Turn on the receiver

- 1 - Install fresh batteries with the correct polarity.
- 2 - Connect an earphone to the bodypack receiver.
- 3 - Long press the power button to turn it on.

Step 3: Set up the transmitter

Short press (tap) the SET button to enter the transmitter menu and select the desired setting and function, including the group number setting, channel number setting, stereo/mono mode, lock function, and the IR synchronization.

1 - Group number setting

- ① Short press (tap) the SET button and select "Group" on the screen.
- ② Short press (tap) the "▲" up and "▼" down buttons to select the desired group number.

2 - Channel number setting

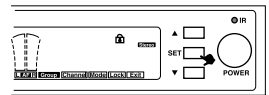
- ① Short press (tap) the SET button and select "Channel" on the screen.
- ② Short press (tap) the "▲" up and "▼" down buttons to select the desired channel number.

***NOTE:** Setting the group number and channel number to select the desired frequency.

3 - Stereo/mono mode

- ① Short press (tap) the SET button and select "Mode" on the screen.
- ② Short press (tap) the "▲" up and "▼" down buttons to select the "Stereo" or "Mono" mode.

***NOTE:** For stereo monitoring, make sure the "Stereo" indicators are on for both the transmitter and bodypack receiver. If the "Stereo" indicator is absent on the receiver display, the receiver is in the mono mode.



4 - Lock function

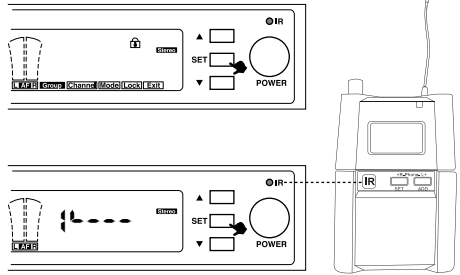
- ① Short press (tap) the SET button and select "Lock" on the screen.
- ② Short press (tap) the "▲" up and "▼" down buttons to lock (you can see the "🔒" on the screen) or unlock the setting.

Step 4: Pair up the transmitter and receivers

- 1 - Short press (tap) the SET button several times to exit the transmitter menu and initiate the IR synchronization.
- 2 - Vertically aim the IR window of a bodypack receiver to that of the transmitter.

***NOTE:** The LCD screens of handheld and bodypack transmitters turn dim in standby mode. The LED light on top of the bodypack transmitter remains green when paired up to indicate it is turned on.

***NOTE:** If you would like to use several bodypack receivers simultaneously for monitoring the same audio signal, please pair up all the receivers with the transmitter for the same frequency number.



Step 5: Set up the bodypack receiver

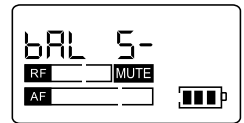
To access the function menu, short press (tap) the SET button to enter BAL and FOC functions and long press to enter the other functions. Once in the menu, tap the SET button again to cycle through the functions.

1 - BAL Function

Balance function. It can adjust the volume of the left/right channel. Each channel has 16 volume settings, including 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, and F.

- ① When the receiver is in the original display, short press (tap) the SET button to enter the BAL function menu.
- ② Press the SET/ADD button to decrease/increase the volume.

***NOTE:** This function can only be applied when the transmitter and receiver are in stereo mode.

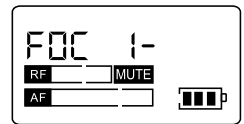


2 - FOC Function

It can adjust the volume of the left/right channel. Each channel has 16 volume settings, including 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, and F.

- ① When the receiver is in the original display, short press (tap) the SET button to enter the FOC function menu.
- ② Press the SET/ADD button to decrease/increase the volume.

***NOTE:** This function can only be applied when the receiver is in mono mode.

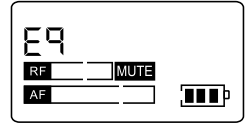


3 - EQ Function.

Equalizer function. It can adjust the tone/pitch of the music sound.

- ① Wait until the receiver is in the original display.
- ② Long press the SET button to enter the other functions list.
- ③ In the EQ function, Press the ADD button to toggle between ON and OFF settings.

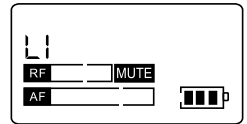
***NOTE:** When it is in OFF mode, the receiver is in normal mode and would not adjust the tone/pitch of the music sound regardless of the strength of volume. When it is in ON mode, the receiver is in "increase tone/pitch" mode.



4 - L1 Function

Limiter function. It can attenuate loud audio signals and prevent the sound from being distorted when you turn up the volume too high. However, it changes the music dynamic and might affect the trueness of the sound.

- ① Wait until the receiver is in the original display.
- ② Long press the SET button to enter the other functions list. Short press (tap) to enter the L1 function.
- ③ Press the ADD button to toggle between ON and OFF settings.

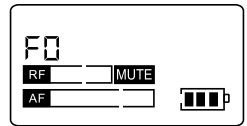


5 - FO Function

Stereo/mono selection. The stereo/mono mode needs to match the mode selection on the transmitter (base unit).

- ① Wait until the receiver is in the original display.
- ② Long press the SET button to enter the other functions list. Short press (tap) to enter the FO function.
- ③ Press ADD button, and you can select the mono mode (ON) or stereo mode (OFF).

***NOTE:** The stereo mode is applied when the transmitter and bodypack receivers are both in stereo mode (please check the stereo indicators).

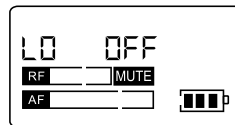
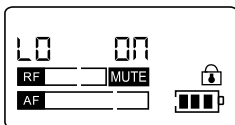


6 - LO Function

Lock function. Lock the selected frequency on the receiver.

- ① Wait until the receiver is in the original display.
- ② Long press the SET button to enter the other functions list. Short press (tap) to enter the LO function.
- ③ Press ADD button to select ON/OFF to lock/unlock.

***NOTE:** The lock indicator appears/disappears on the screen when the setting is locked/unlocked.



Troubleshooting

Problem	Solution
Distorted audio/statics noises	<ul style="list-style-type: none"> • Select an interference-free frequency for use. • Place the PMT-1 transmitter highly or move it to another place. • Check the volume levels at the PMT-1 transmitter and verify that the meter is not reaching the overload indicator. • Make sure 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 displays 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.
Other receiver malfunction	<ul style="list-style-type: none"> • Reset the receiver to fix malfunction: <ol style="list-style-type: none"> ① Long press the power button to turn off the receiver. ② Long press the power and SET buttons together for 2 seconds to reset the receiver. And the receiver display shows the initial frequency setting "01 01". ③ Vertically pair up the receiver and transmitter.
Sync failure for pairing a bodypack that is synced with a transmitter with another transmitter again	<ul style="list-style-type: none"> • The paired receiver is locked by its transmitter. If you need to pair it with another transmitter, please unlock the system by powering off the transmitter or resetting the bodypack receiver.

Specification

• Overall System

Frequency Range	555-575 MHz; 902-928 MHz (depends on local regulations)
Transmitter Output Level	10 dBm
Dynamic Range	>105 dB
Operation Temperature	-10 °C ~ +50 °C
Frequency Response	60 Hz-16 kHz
Dynamic Range	>90 dB A-weighted
Stereo Separation	>40 dB
Working Distance	50 M/164 Ft

• Transmitter

Frequency Range	9+6 dBV
Gain Adjustment Range	40 dB
Input Impedance	6.8 K Ω
Dimensions	14 x 200 x 96 mm (H x W x D)
Weight	600 g
Power Requirement	DC 12-18 V, Current 300 mA, External power adapter

• Bodypack Receiver

Audio Input Level	100 mV
Image Rejection	>65 dB
Dimensions	90 x 65 x 24 mm (H x W x D)
Power Requirement	2 AA size alkaline batteries
Battery Life	At least 8 hours with original batteries for each transmitter

• 500 MHz Frequency Version Frequency List

Group 1		Group 2		Group 3	
CH1	573.65	CH1	558.85	CH1	561.15
CH2	562.425	CH2	572.6	CH2	562.1
CH3	565.4	CH3	564.7	CH3	563.5
CH4	566.5	CH4	574.5	CH4	564.6
CH5	567.9	CH5	568.9	CH5	566.475
CH6	574.3	CH6	571.5	CH6	567.575

Group 4		Group 5		Group 6	
CH1	566.2	CH1	555.9	CH1	566.475
CH2	558.8	CH2	557.1	CH2	558.025
CH3	560.9	CH3	561.2	CH3	560.8
CH4	562	CH4	564.3	CH4	561.95
CH5	563.3	CH5	569.1	CH5	564.125
CH6	564.2	CH6	571.1	CH6	565.575
CH7	566.7	CH7	572.2	CH7	566.725
CH8	571.4	CH8	574.6	CH8	568.8

Group 7		Group 8		Group 9	
CH1	569.4	CH1	556.25	CH1	566.05
CH2	556.925	CH2	559.825	CH2	558.125
CH3	558.65	CH3	563.8	CH3	571.5
CH4	559.85	CH4	565.325	CH4	561.65
CH5	562.4	CH5	574.75	CH5	562.25
CH6	568.775	CH6	571.65	CH6	563.725
CH7	565.275	CH7	561.975	CH7	556.4
CH8	566.55	CH8	570.275	CH8	567.4
CH9	574.775	CH9	568.175	CH9	568.5

Group 10		Group 11	
CH1	557.95	CH1	555.6
CH2	563.525	CH2	557.05
CH3	561.425	CH3	564.875
CH4	563.05	CH4	562.625
CH5	564.275	CH5	561.85
CH6	573.35	CH6	563.55
CH7	565.8	CH7	559.275
CH8	567.625	CH8	560.75
CH9	569.775	CH9	567.35
CH10	559.325	CH10	568.45

• 900 MHz Frequency Version Frequency List

Group 1		Group 2		Group 3	
CH1	923.65	CH1	908.85	CH1	911.15
CH2	912.425	CH2	922.6	CH2	912.1
CH3	915.4	CH3	914.7	CH3	913.5
CH4	916.5	CH4	924.5	CH4	914.6
CH5	917.9	CH5	918.9	CH5	916.475
CH6	924.3	CH6	921.5	CH6	917.575

Group 4		Group 5		Group 6	
CH1	916.2	CH1	905.9	CH1	906.475
CH2	908.8	CH2	907.1	CH2	908.025
CH3	910.9	CH3	911.2	CH3	910.8
CH4	912	CH4	914.3	CH4	911.95
CH5	913.3	CH5	919.1	CH5	914.125
CH6	914.2	CH6	921.1	CH6	915.575
CH7	916.7	CH7	922.2	CH7	916.725
CH8	921.4	CH8	924.6	CH8	918.8

Group 7		Group 8		Group 9	
CH1	919.4	CH1	906.25	CH1	916.05
CH2	906.925	CH2	909.825	CH2	908.125
CH3	908.65	CH3	913.8	CH3	921.5
CH4	909.85	CH4	915.325	CH4	911.65
CH5	912.4	CH5	924.75	CH5	912.25
CH6	918.775	CH6	921.65	CH6	913.725
CH7	915.275	CH7	911.975	CH7	906.4
CH8	916.55	CH8	920.275	CH8	917.4
CH9	924.775	CH9	918.175	CH9	918.5

Group 10		Group 11	
CH1	907.95	CH1	905.6
CH2	913.525	CH2	907.05
CH3	911.425	CH3	914.875
CH4	913.05	CH4	912.625
CH5	914.275	CH5	911.85
CH6	923.35	CH6	913.55
CH7	915.8	CH7	909.275
CH8	917.625	CH8	910.75
CH9	919.775	CH9	917.35
CH10	909.325	CH10	918.45

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.



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