



PHENYX PRO®

PTM-10

Stereo & Mono Mode

Professional UHF Wireless In Ear Monitor System



OWNER'S MANUAL

*Thank you for purchasing the Phenyx Pro
PTM-10 Wireless In Ear Monitor System. For the
best results and the utmost satisfaction for 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 uses advanced circuit design to make the received signal steady and improve the anti-interference function to show the perfect original sound. 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 MHz bands for multiset operation.
- Up to 160ft/50m free operation range.
- The adapter cord tie-off renders manageable cables.
- The powerful receiver features multiple practical functions, including stereo/mono selection, 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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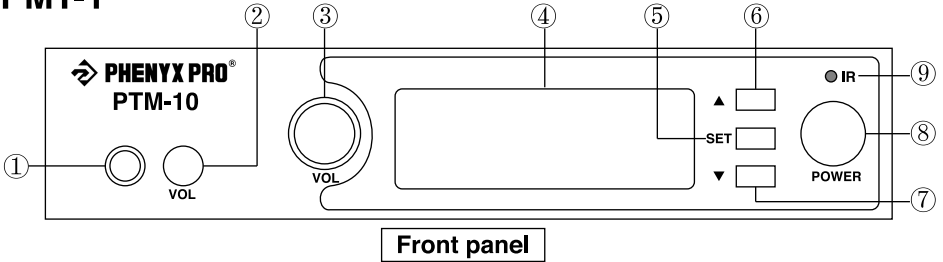
Accessories

ANTB-500	Antennas for 500 UHF Band
PTA-01	Power Adapter
PTA-03	Carrying Case
PME-1	Earphone
	AA Batteries
	Metal Rackmount Kit
	User's Manual

Functions of Parts

Transmitter

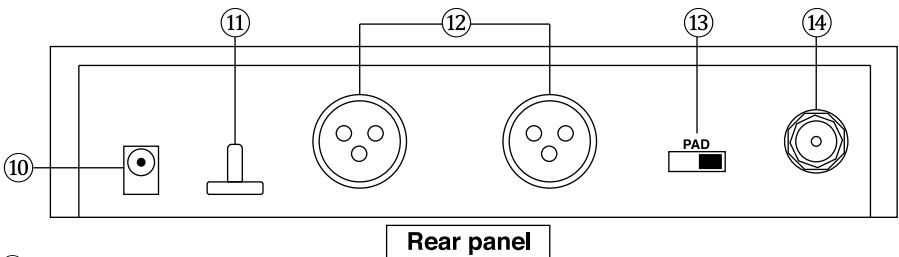
PMT-1



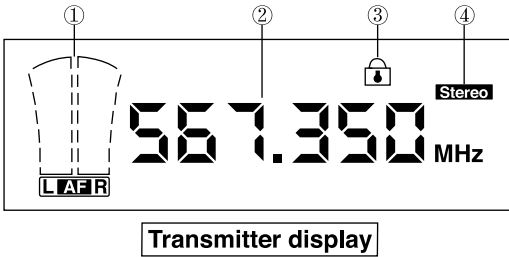
- ① **Audio output jack (1/4 Inch TRS):** Connect to a headphone, earphone, or wedge speaker for direct monitoring.
- ② **Output level control:** Adjust the level of the output audio signal to the audio output jack (1/4 inch TRS, Balanced).
- ③ **Input level control:** Adjust the level of the input audio 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.

*NOTE: Please short press (tap) the SET button to initiate IR synchronization (LCD shows " |← --- "). Then vertically aim the IR window of the transmitter to that of the receiver for pairing them up.

- 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 managing cable.
- 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 (-12dB), the default setting of 0dB will have no effect on gain.
- ⑭ **Antenna jack:** For connecting detachable antenna and transmitting signals to bodypack receivers.

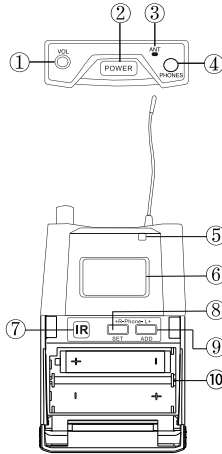


Transmitter display

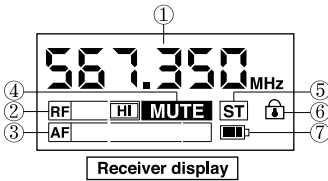
- ① **AF signal indicator:** For indicating the input audio signal of the left and right channels.
- ② **Frequency number**
- ③ **Lock indicator:** It appears to indicate that the setting is locked and disappears to unlock.
- ④ **Mode indicator:** For indicating the mono or stereo mode to output the audio signal.

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:** For indicating 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.



Receiver display

- ① **Frequency number**
- ② **RF signal indicator:** For indicating 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:** It flashes to indicate the audio signal level. When it is blank, the bodypack receiver receives no sound.
- ④ **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.
- 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:** It appears when the setting is locked and disappears when unlocked.
- ⑦ **Battery indicator:** Indicates the real-time battery status.

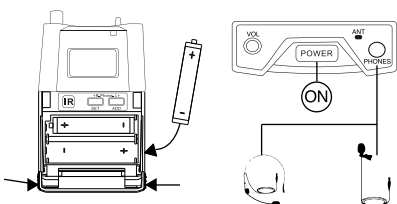
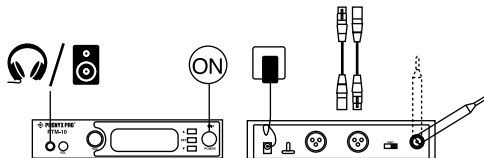
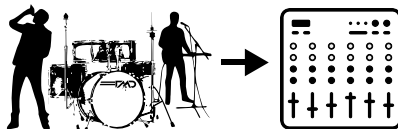
Operation Guidance

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

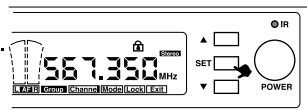
- 1 - Install fresh batteries with the correct polarity.
- 2 - Connect an earphone to the bodypack receiver.
- 3 - Long press power buttons to turn on the receiver.

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

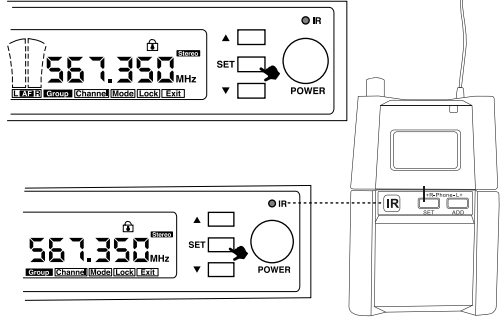
- ① Short press (tap) the SET button and select **“Lock”** on the screen.
- ② Short press (tap) the **“▲”** up and **“▼”** down buttons to lock (you can see the **“🔒”** on the screen) or unlock the setting.

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

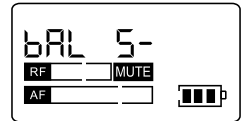
For BAL and FOC functions, short press (tap) the SET button to enter. For other functions, wait back to the original display (frequency display status), long press the SET button to enter the other functions list, and short press (tap) the SET button to switch functions.

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.



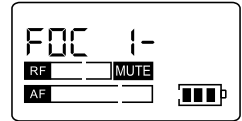
***Note:** This function can only be applied when the transmitter and receiver are in stereo mode.

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.

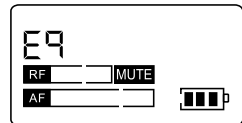
3- EQ Function.

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 ADD button to select ON/OFF for setting/unsetting.

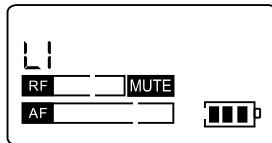


***Note:** When it is in OFF mode, the receiver is in normal mode and would not adjust the tone/pitch of the music sound regardless of the strength of volume. When it is in ON mode, the receiver is in "increase tone/pitch" mode.

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.

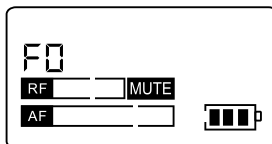


- ③ Press the ADD button, and you can select ON/OFF for setting/unsetting.

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).

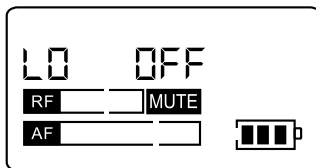
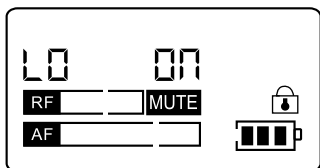
***Note:** The stereo mode is applied when the transmitter and bodypack receivers are both in stereo mode (please check the stereo indicators).

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 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.
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	555-575MHz (depends on local regulations)
Transmitter output level	10dBm
Dynamic range	>105dB
Operation temperature	-10°C to +50°C
Frequency response	60Hz - 16kHz
Dynamic range	>90dB A-weighted
Stereo separation	>40dB
Working distance	50M/164Ft

• Transmitter

Frequency range	9+6dBV
Gain Adjustment range	40dB
Input impedance	6.8KΩ
Dimensions	44mm H * 200mm W * 96mm D
Weight	600g
Power requirement	DC 12 - 18V, Current 300mA, External power adapter

• Bodypack Receiver

Audio input level	100mV
Image rejection	>65dB
Dimensions	90mm H* 65mm W* 24mm D
Power requirement	2 AA size alkaline batteries
Battery life	At least 8 hours with original batteries for each transmitter

• 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

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