

PHENYX PRO®
PDP-1-1B Single
Digital Wireless
Microphone
System



PHENYX PRO PDP-1-1B Single Digital Wireless Microphone System Instruction Manual

[Home](#) » [PHENYX PRO](#) » PHENYX PRO PDP-1-1B Single Digital Wireless Microphone System Instruction Manual



Contents

- [1 PHENYX PRO PDP-1-1B Single Digital Wireless Microphone System](#)
- [2 SYSTEM DESCRIPTION](#)
- [3 FUNCTIONS OF PARTS](#)
- [4 OPERATION GUIDANCE](#)
- [5 TROUBLESHOOTING](#)
- [6 SPECIFICATION](#)
- [7 TECHNICAL SUPPORT & WARRANTY INFORMATION](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)



PHENYX PRO PDP-1-1B Single Digital Wireless Microphone System



Thank you for purchasing the Phenyx Pro PDP-1/2 Series. 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.phenyxpro.com

SYSTEM DESCRIPTION

System overview

Phenyx Pro always adheres to the mission of inspiring people to achieve next-level sound performance and exploring better techniques to enhance the wireless experience. The PDP-1/2 series is our new digital solution that balances convenience and professionalism. With an adjustable UHF frequency design, it boasts advanced digital circuitry for noise immunity and delivers stellar sound for small-scale indoor and outdoor performances. This is a go-to audio solution for weddings, church sermons, karaoke, broadcasts, meetings, etc.

System features

- 48kHz/24Bit UHF digital circuitry transmits encrypted signals to avoid signal crosstalk and deliver pure fidelity sound. Tunable frequency design makes the system fearless to interference.
- (US version has 15 frequencies for each transmitter. EU version has 5 frequencies for each transmitter.)
- The dynamic cardioid microphone delivers stable performance.
- Rock-solid wireless coverage is up to 200ft without interference.
- Transmitter mute function for your convenience and safety.
- Plug-and-go hookup. One-tap frequency selection from the transmitter.
- Available to link up several units simultaneously.
- The portable receiver and bodypack transmitter with the universal USB Type-C charging port offer ultimate

convenience and fast charging.

- 1500mAh battery of receiver and 550mAh battery of bodypack transmitter for long-lasting battery life.
- The whole system is durable-metal built with an elegant silver color.

System component

Receiver

PWR-P1	Single wireless rechargeable receiver
PWR-P2	Dual wireless rechargeable receiver

Transmitters

PWH-P	Handheld transmitter
PWB-P	Bodypack transmitter

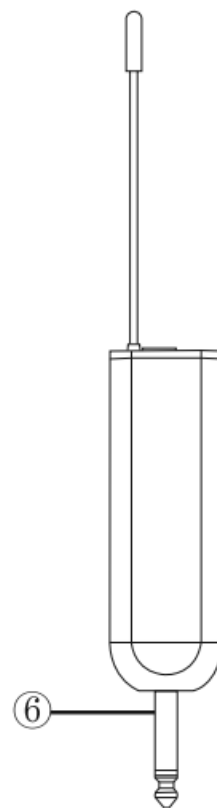
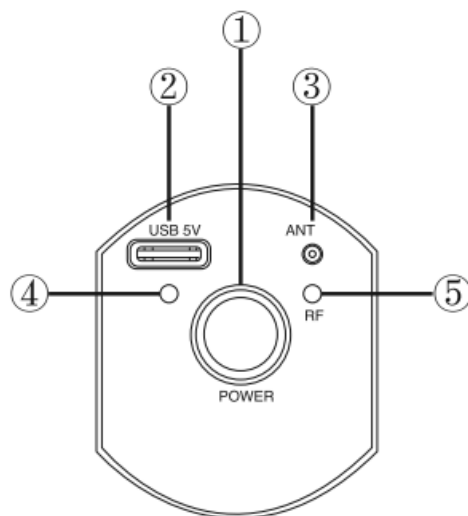
Accessories

1HM1LM-BLK	Black headset & lapel mic combo
	Angle TS male to 1/4" TS female adapter
	6.35mm to 3.5mm adapter
	USB-C charging cable
	Microphone foam cover
	AA batteries
	User's manual

FUNCTIONS OF PARTS

Receiver: PWR-P1/2

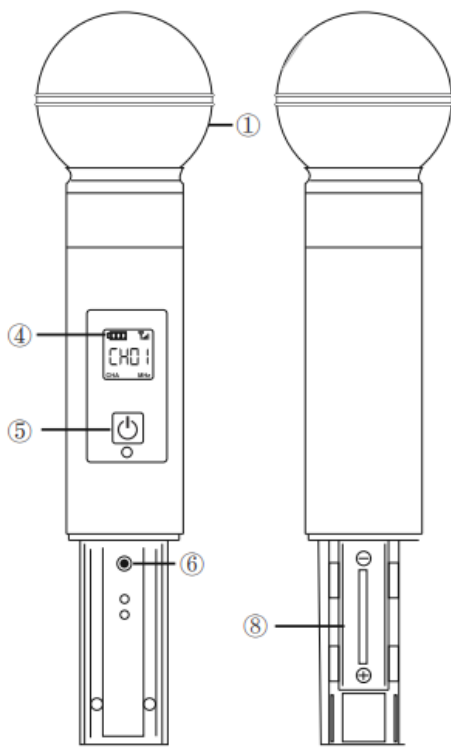
- The PWR-P1 receives the signal from only one transmitter, which should be in CHA. It can not receives the signal from a transmitter in CHB.
- The PWR-P2 can receive signals from two transmitters which should be in CHA and CHB.



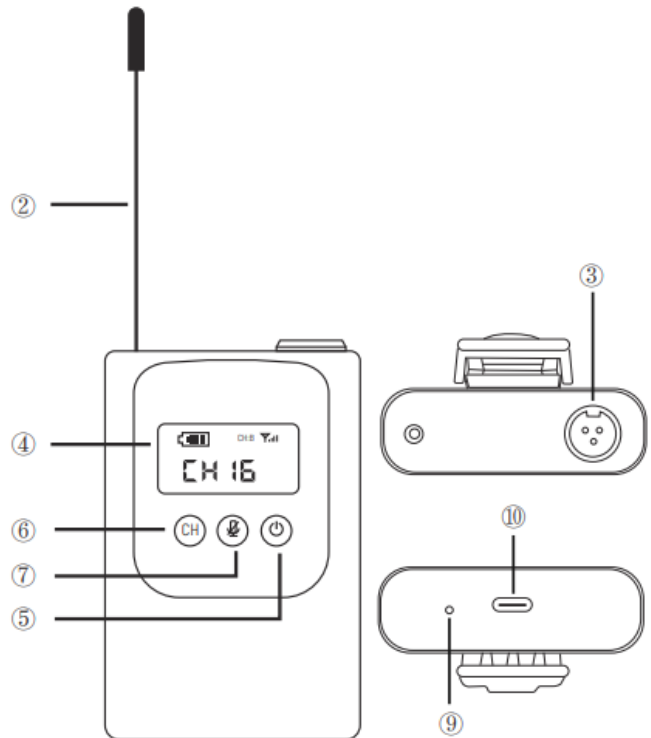
1. **Power/Pair button:** Long press this button for 2 seconds to turn on/off the receiver, and tap it to initiate synchronization with the transmitter.
2. **USB-C port:** The USB-C charging port for the receiver.
3. **Antenna:** For better signal reception, please keep it upward while using.
4. **Battery indicator:** It doesn't light up when the receiver is turned on with enough battery. And it will turn red and flash quickly when the receiver is in the low battery status. While charging, the indicator will stay red; then, it will turn off when the receiver is fully charged.
5. **RF indicator:** It stays on, indicating the receiver is receiving signals. When it flashes slowly, the receiver is not paired up with the transmitter; while flashing quickly, the receiver and transmitter are successfully synced.
NOTE: If you want to verify whether the second transmitter of the PDP-2 is synced, please make sure both transmitters are in different channels and that the RF indicator flashes quickly and then stays on when you turn on each one. Also, you'd better do a sound check for both transmitters to confirm the successful synchronization.
6. **6.35mm TS connector:** It is compatible with the 6.35mm TS jack of an audio mixer, amplifier or other devices to output the audio signal received from the transmitter.

Transmitters

Handheld transmitter PWH-P



Bodypack transmitter PWB-P



1. Microphone capsule

NOTE: Please make sure the sound source is toward the capsule.

2. Bodypack antenna

3. **Mini 3-pin XLR jack:** Connect a headset/lapel microphone.

4. **LCD display:** It shows real-time battery indicator, frequency number and channel number. The screen shows “—” when the transmitter is stand by.

5. **Power button:** Long press this button for 2 seconds to turn on/off the transmitter.

NOTE: For handheld mic, tap this button to mute the mic. The LCD screen flashes when the transmitter is muted.

6. **CH button:** Tap this button to adjust the channel frequency.

7. **Mute button:** Tap this button to mute the bodypack. The LCD screen flashes when the transmitter is muted.

8. **Battery compartment:** Install AA batteries with the correct polarity to charge the handheld mic.

9. **USB-C port:** The USB-C charging port for the bodypack transmitter.

10. **Power indicator:** It lights red when the bodypack transmitter is charging and turns blue when fully charged.

NOTE: It doesn't light up when the bodypack isn't charged to the USB-C charger.

OPERATION GUIDANCE

Step 1: Power up and pair up the receiver and transmitters

1. Make sure the receiver is fully charged before using it.
2. Long press the power button of the receiver for 2 seconds to turn it on.
3. For the handheld mic, unscrew the battery cover of the transmitter and install fresh batteries with the correct

polarity. For the bodypack transmitter, make sure it is fully charged.

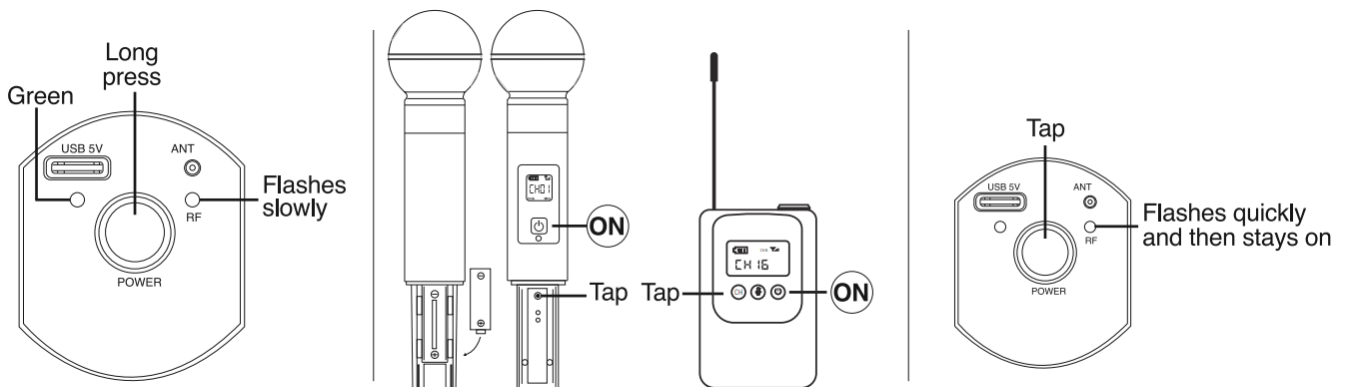
4. Long press the power button of the transmitter for 2 seconds to turn it on.

NOTE: The LCD screen of the transmitter shows “—” in standby mode.

5. Tap the CH button of the transmitter to select the desired frequency.

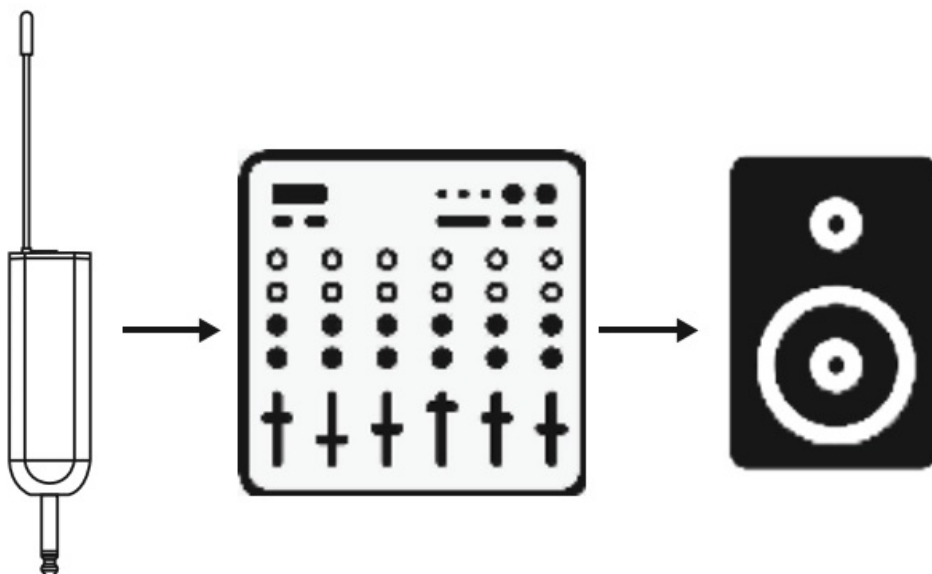
NOTE: A frequency accommodates only one wireless channel. Please ensure that the frequencies of each transmitter are different from each other.

6. Tap the power/pair button of the receiver to pair it up with the transmitter.
7. Check the indicators of the receiver to ensure effective synchronization.
8. When pairing up the second transmitter for the PDP-2 system, please make sure to select a different frequency from the first one and follow the procedures above.



Step 2: Link up with the sound system

1. Make sure the gain and volume for input channels of the mixer/party box/karaoke machine are set to the minimum.
2. Insert the receiver into the 1/4" input jack of the mixer/party box/karaoke machine to output the sound.
NOTE: Make sure the antenna keeps all the way upward. If it does not, please use the angle TS adapter included in the package for it.
3. Adjust the gain and volume to ensure effective audio output.



WIRELESS TIPS

If you encounter wireless interference or dropouts, try the following suggestions:

- Replace the transmitter batteries.
- Make sure the battery of the receiver is sufficient.
- Choose a different frequency channel.
- Avoid approaching the receiver and transmitters with metal or other dense materials.
- Place the receiver as high as possible on the equipment rack.
- Remove any devices causing possible signal interference, such as cellphones, computers, media players, two-way radios, and digital signal processors.
- Keep transmitters more than 6 feet (two meters) apart.

TROUBLESHOOTING

ISSUE	INDICATOR STATUS	CORRESPONDING SOLUTION
No sound or faint sound	Receiver is turned off	<ul style="list-style-type: none">– Make sure the receiver is powered on.– Check if the receiver battery is sufficient, otherwise charge it to ensure the battery indicator lights green.
	Receiver is turned on	<ul style="list-style-type: none">– Ensure the transmitter is not muted.– Make sure the transmitter is paired up with the receiver (check RF signal).– Adjust the gain and volume of the next stage equipment (mixer/amplifier).
Low battery	The battery indicator shows low battery status	<ul style="list-style-type: none">– Replace with fresh batteries for the transmitter.– Charge the receiver via a USB-C cable.
A howling noise (feedback)		<ul style="list-style-type: none">– Do not point the microphone directly at the speaker; increase their distance.– Avoid fully covering the microphone capsule with your hands.– Do not set too much gain for the microphone.
Pair up with a new transmitter		<ul style="list-style-type: none">– The system is paired up automatically before delivery. If you need to pair up again:<ol style="list-style-type: none">1. Check if the new transmitter is in the desired channel (A or B). Switch to CHA or CHB if needed.2. Turn off the transmitter.3. Long press the power and CH buttons for 4 seconds until “CH00” appears.4. Turn on the receiver and wait for 2 seconds, then tap the CH button.
Switch the channel of transmitter		<ul style="list-style-type: none">– Make sure the receiver and transmitters are off.<ol style="list-style-type: none">1. Turn on the transmitter and long press power + CH buttons for 5 seconds.2. LCD will display “U272” or “U291”.3. Complete pairing after switching the channel.

SPECIFICATION

PWR-P1/2 Wireless Receiver	
Operating temperature	0°C to +55°C
Battery capacity	1500mAh
Output	TS 1/4" Male Output
Charging interface	USB-C
Power supply	DC 5V 500mA

PWR-P Bodypack Transmitter	PWH-P Handheld Transmitter
Headset/lapel mic type: Condenser	Mic type: Dynamic
Polar pattern: Omni	Polar pattern: Cardioid
Sensitivity: Headset mic: -36dB (± 2 dB), Lapel mic: -30dB (± 2 dB)	S/N ratio: 96dB
S/N ratio: 96dB	Frequency response: 50Hz-16kHz
Frequency response: 110Hz-18kHz	Output impedance: 600 Ω
Output impedance: 2.2k Ω	Sample rate: 48kHz
Sample rate: 48kHz	Bit rate: 24Bit
Bit rate: 24bit	THD+N: 0.05%
THD+N: 0.1%	
Charging interface: USB-C	
Charging time: About 2h	
Working time: About 5.5h	

Frequency List

For the single wireless system, the transmitter operates in CHA. For the dual wireless system, one transmitter operates in CHA- the other operates in CHR. Frequencies vary from country to country.

	US		EU	
	CHA	CHB	CHA	CHB
CH01	902.8 MHz	CH16 915.6 MHz	CH01 823.0 MHz	CH06 827.8 MHz
CH02	903.6 MHz	CH17 916.4 MHz	CH02 823.8 MHz	CH07 828.6 MHz
CH03	904.4 MHz	CH18 917.2 MHz	CH03 824.6 MHz	CH08 829.4 MHz
CH04	905.2 MHz	CH19 918.0 MHz	CH04 825.4 MHz	CH09 830.2 MHz
CH05	906.0 MHz	CH20 918.8 MHz	CH05 826.2 MHz	CH10 831.0 MHz
CH06	906.8 MHz	CH21 919.6 MHz		
CH07	907.6 MHz	CH22 920.4 MHz		
CH08	908.4 MHz	CH23 921.2 MHz		
CH09	909.2 MHz	CH24 922.0 MHz		
CH10	910.0 MHz	CH25 922.8 MHz		
CH11	910.8 MHz	CH26 923.6 MHz		
CH12	911.6 MHz	CH27 924.4 MHz		
CH13	912.4 MHz	CH28 925.2 MHz		
CH14	913.2 MHz	CH29 926.0 MHz		
CH15	914.0 MHz	CH30 926.8 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.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 our Facebook page: www.facebook.com/phenyxusa/ or our official website: www.phenyxpro.com

Documents / Resources

 <p>PHENYX PRO[®] PDP-1/2 Series DIGITAL PORTABLE SYSTEM Wireless Microphone System (Single / Dual)</p> <p>OWNER'S MANUAL</p>	<p>PHENYX PRO PDP-1-1B Single Digital Wireless Microphone System [pdf] Instruction Manual</p> <p>PDP-1-1B, PDP-1-2, PDP-1-1B Single Digital Wireless Microphone System, PDP-1-1B, Single Digital Wireless Microphone System, Digital Wireless Microphone System, Wireless Microphone System, Microphone System, System</p>
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References

- [User Manual](#)

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