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## **PDWM1800**

### **Premier Series Professional UHF Wireless Handheld Microphone System**

## USER MANUAL

## FOREWORD

Please read this manual before using this equipment in order to avoid damage through incorrect operation and to get the best performance from your purchase. Please keep and store this instruction booklet in a safe place after reading it for future reference.

This professional wireless microphone system operates on high-efficiency, low-consumption discharging techniques. Performance features include independent developed mobile frequency compression, expander circuitry, image frequency limiting circuits, a multiple checked silent and noise-free circuits, antenna diversity receiving circuit & switch impact noise defeat circuits. Resist reverberation circuit and changed output control. Passes Q.C. code standards.

## SYSTEM FEATURES

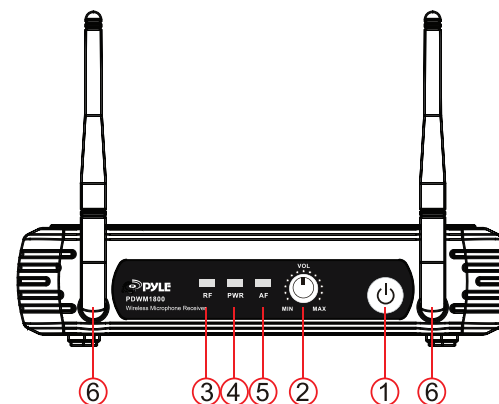
All UHF Series systems offer a variety of exceptional features, including:

- 1. Multiple System Use:** Up to several UHF systems can be used in the same performance space. Each system must be set at a different frequency. (Frequency marked on the back of the receiver)
- 2. Simultaneous Output Use:** Unbalanced 1/4" phone plug and balanced XLR output connectors may be used simultaneously to different external devices.
- 3. Range:** UHF Series transmitters will work at a distance of up to 50 meters (about 164ft.) from the receiver.
- 4. Noise Squelch:** Squelch circuit analyzes signal strength and quality so that it can reduce the likelihood of noise burst due to environmental RF (radio frequency) noise.
- 5. Low Battery Warning Light:** A red light on the body-pack and hand-held transmitters warns the user that there is less than one hour of battery life left.

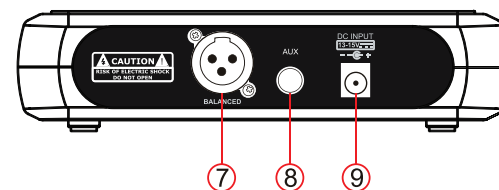
## SYSTEM TYPE

The Vocal Artist-UHF is a hand-held system designed for singers who desire the high quality of microphones and the freedom of wireless performance.

## RECEIVER FEATURES



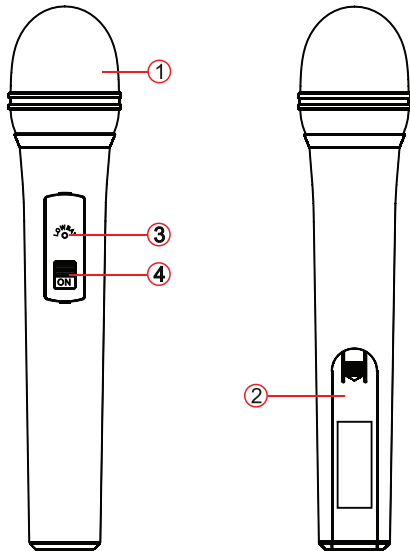
Front Panel



Rear Panel

- 1. Power Switch:** Power ON/OFF the receiver.
- 2. Volume Knob:** Adjust the volume output of the receiver.
- 3. "RF" Signal Indicator:** It glows when the Receiver receives RF signal from Transmitter.
- 4. Power Indicator:** Indicates the power ON/OFF.
- 5. "AF" Audio Level Indicator:** Indicates the wireless system audio signal level.
- 6. Antenna A/B.**
- 7. XLR Balanced Output Jack:** Connect the audio cable from this jack to the input port of amplifier, mixer.
- 8. 1/4" Audio Output Jack:** Connect the audio cable from this jack to the input port of amplifier, mixer.
- 9. Power Jack:** Connect the AC/DC adapter to receiver.

## MICROPHONE TRANSMITTER FEATURES

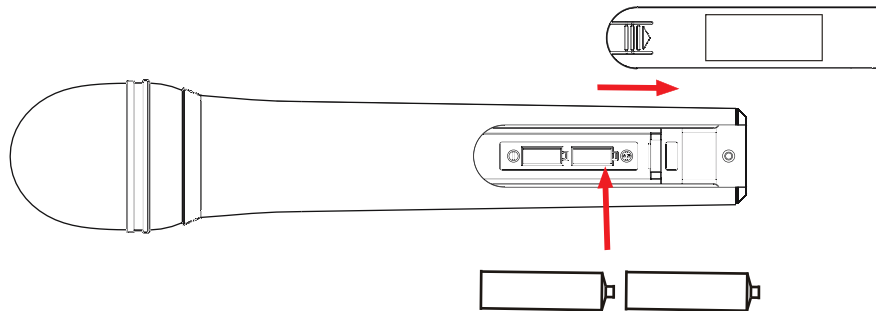


1. **Grille:** Protects the cartridge and helps to reduce the breath sounds and wind noise.
2. **Battery Cover:** Open to install the battery.
3. **Low Battery Indicator:** Red light glows when its lack of power and should renew the battery.
4. **Power and Audio Mute Switch.**

## TRANSMITTER BATTERY INSTALLATION

### 1. Handheld Microphone Battery Installation:

Push open the battery cover. Insert the supplied batteries into battery jar in polarity and push back the battery cover.

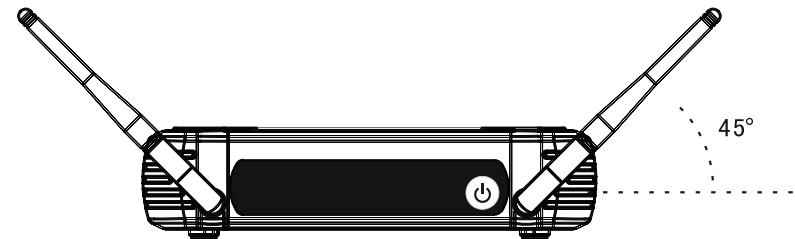


## SYSTEM CONNECTION

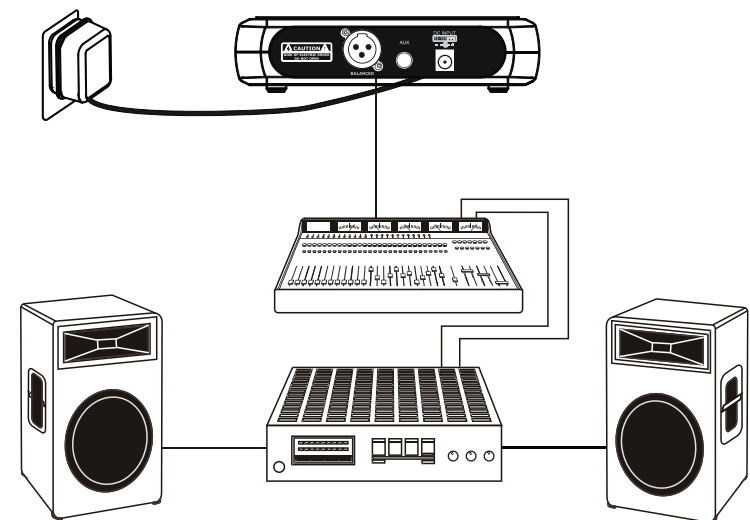
1. **Receiver Power Connection:** Connect the DC connector of supplied AC/DC adapter into the DC power input of receiver. Plug the AC input connector into an AC 120/60Hz or AC 220V/50Hz outlet. (Shown as below)



2. **Antenna:** Keep the position of antenna at a 45 angle from vertical.



3. **Audio Connection:** Connect the corresponding output of receiver by the supplied 1/4" phone jack audio cable or your XLR cable to the input of power amplifier, mixer.



## TROUBLESHOOTING

PROBLEM	INDICATOR STATUS	SOLUTION
No sound	Red transmitter indicator is not flashing	Slide transmitter POWER ON/OFF switch to ON position. Make sure battery is inserted properly, observing battery (+/-). Be sure to replace the battery with a fresh one.
No sound	Red transmitter indicator is flashing	Slide transmitter MUTE/ON switch to ON position
No sound	Red receiver POWER light is off	Make sure AC adaptor is securely plugged into an electrical outlet and into DC input connector. Make sure AC electrical outlet works and supplies proper voltage.
No sound	Receiver signal indicators A/B lights glowing	Turn up receiver volume control. Confirm that the output connections from the receiver to the external equipment are secure
No sound	Receiver signal indicators A/B lights off. Transmitter and receiver POWER lights glowing	Confirm if transmitter and receiver's frequencies match. Move transmitter closer to receiver.
Sound level differs from level of a cabled Instrument	Receiver signal indicators A/B lights glowing	Adjust transmitter gain level to compensary. Adjust receiver volume as necessary.
Sound level differs with different guitars.	Receiver signal indicators A/B lights glowing	Readjust transmitter gain level to compensate for differences in guitar outputs
Distortion level increases gradually	Receiver signal indicators A/B lights and transmitter LOW BATTERY light glowing	Replace transmitter battery
Bursts of noise or other audible radio signals present.	Signal Indicators A/B lights ON	Identify potential sources of interference (other RF- sources) and turn off, remove or use a wireless system operating on a different frequency.
Momentary loss of sound as transmitter is moved around performing area.	Receiver signal indicators A/B lights off when sound is lost	Reposition receiver and perform walk-through test again. If audio dropouts persist, mark "dead" spots and avoid them during performance

## PDWM1800

### Premier Series Professional UHF Wireless Handheld Microphone System

#### System Features:

- LED Power Indicator
- Operation Range: Up to 164 ft.
- Audio Level Indicator for wireless system audio signal level
- RF Signal Indicator for transmitter signal strength
- UHF Signal for wider range and less obstruction
- Adjustable volume control
- 1/4" audio output jack
- XLR balanced output jack
- AC/DC adapter power jack

#### Handheld Transmitter Specs:

- RF Output: >10 dBm
- Modulation Type: FM
- Max Deviation:  $\pm$  40 KHz
- Spurious Emission: > 55 dBc
- Nominal Current Drain: < 40mA
- Battery Operated Microphone, (2) x 'AA' (Not Included)
- Dimensions: 9.25" x 1.9" x 1.9" -inches

#### What's in the Box:

- Wireless Microphone
- Receiver Base
- Power Cable

#### Receiver Specs:

- Wireless Operating Frequency Range: 573-597.8 MHz
- Image & Spurious Rejection: >70 dB
- Receiving Sensitivity: -105 dB
- Signal / Noise Ratio: -105dB
- Border Upon Channel Rejection: > 70 dB
- T.H.D.: < 1.0%
- Audio Output Level: 0-300 mV
- Power Requirements: 13-15V DC nominal 300 mA
- Power Supply: 110/220V
- Dimensions 6.8" x 5.3" x 1.7" -inches