

# PYLE®

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## ***PDWM3100***

### **Home & Office UHF Wireless Microphone System**

Includes (2) USB Rechargeable Battery Handheld Mics, Fixed Frequency

**USER GUIDE**

**Please read this manual carefully before operating your *PDWM3100 UHF Wireless Microphone System* and retain it for future reference.**

### **FEATURES:**

- UHF 2×100 Channel Receiver
- Digital Signal Processor
- High-fidelity Cartridge Module
- Infrared Carrier-frequency Synchronization
- Unique ID Address
- Super Anti-Jamming Circuit Design
- Super-low Background Noise
- Frequency Auto-Search (Search Non-Interference Frequency)
- Microphones Can be Use with Any Receiver
- Microphone High-Low Two Type Power Transmitter
- Scope of Application: Conference, High-Class KTV, Stage
- Provide with Perfect Switch Noise Deducted Circuit
- Includes (2) Handheld Mics
- Portable Rechargeable Battery Microphones
- Simple Plug-and-Play Operation
- Perfect for Professional Audio Stage & Studio Performances
- Directly Connects to Amplifiers, Stereos, Audio Processors, DJ Mixers
- Used for Home Karaoke, Classroom, Office & Business Applications

### **WHAT'S IN THE BOX:**

- Receiver
- (2) Handheld Microphone
- Power Adapter (DC 12V,1A)
- Connecting Line (39.37"-inches)
- (4) Rechargeable Batteries (NI-MH Battery)
- (2) Silicone Antiskid
- (2) Antenna

### **TRANSMITTER SPECS:**

- Transmitter Power: 3-8mW
- Modulation Method: FM
- Sampling Ratio: 48KHz
- Delay Time of Audio Transmission: <3ms
- Battery Voltage: AA1.5V×2
- Frequency Response: 30 ~ 20 KHz

### **RECEIVER SPECS:**

- Power Supply: AC100~240V/ 50/60Hz, DC12v
- Power Consumption: 200mW
- S/N Ratio: >96 dB,
- Frequency Response: 30 ~ 20 KHz
- RX Sensitivity: < -94dBm
- Balance Type: 0~±500mV
- Mix Type: 0~±300mV

### **TECHNICAL SPECS:**

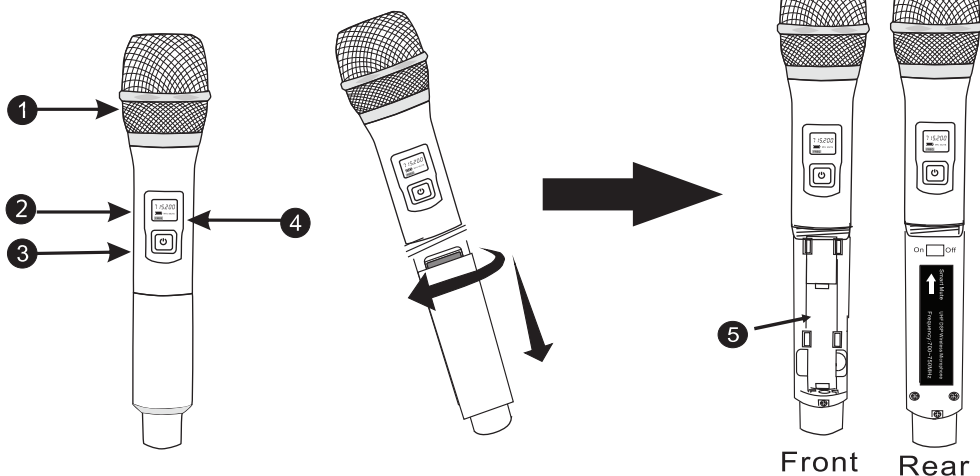
- Frequency Range: UHF 510-560MHz
- Channel: 2 x 100
- Frequency Stabilization: <±30ppm
- Dynamic Range: >90dB
- Total Harmonic Distortion: <0.5%
- Frequency Response: 40Hz~20KHz ±3dB
- Cover Range: 164-262 ft.
- Battery Type: NI-MH Battery, 1200mAh (Rechargeable)
- Battery Life: more than 7 Hours
- Charging Time: 10 Hours
- Product Dimensions: 8.67" x 5.31" x 10.83" -inches

## WAYS TO IMPROVE YOUR UHF WIRELESS MICROPHONE SYSTEM PERFORMANCE

- Aim the transmitter to the receiver to achieve a “**direct visual contact**” between devices, without any interposed obstacle.
- Avoid placing the receiver near metal objects/surfaces or close to digital equipment (CD players, computers, etc.).
- Place the receiver in such a way that is far from a wall and that is at least 1 meter (about 3 feet) above the floor.

### HAND-HELD TRANSMITTER

#### 1. MAIN FUNCTIONS



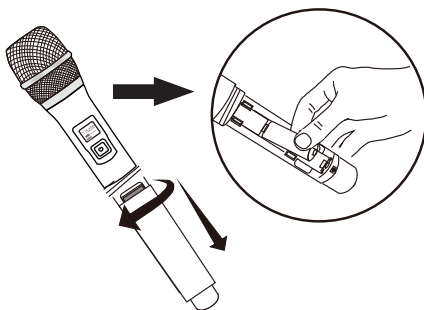
#### 2. TRANSMITTER DISPLAY CONTENT

1. Handheld microphones transmit frequency/  
The number of channels
2. Battery indicator

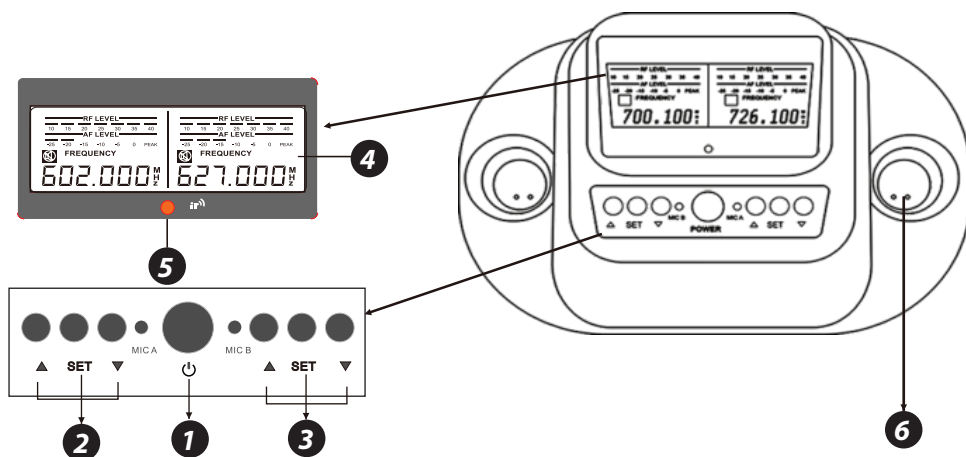


### 3. REPLACE THE BATTERY

Two polar battery life is about 8 hours, but it may vary according to the usage conditions. When the battery power displays  as empty and flashing, you should replace the batteries at once.



## 2. RECEIVER FUNCTION CONTROLS AND FUNCTIONS

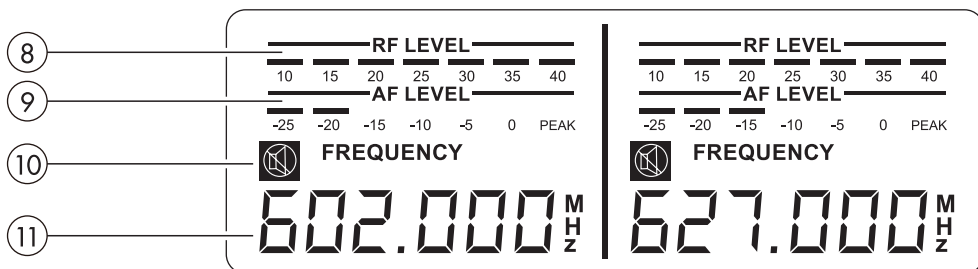


### FRONT PANEL:

1. **POWER BUTTON:** Press this button to turn ON/OFF the unit
2. **MIC 1 SELECTOR BUTTONS (UP/SET/DOWN):** Allows control of LCD screen and functions for Microphone 1.
3. **MIC 2 SELECTOR BUTTONS (UP/SET/DOWN):** Allows control of LCD screen and functions for Microphone 2.
4. **LCD SCREEN:** Displays system status.
5. **IR PORT:** Infrared port for wireless Infrared Auto Sync System.  
Pointing the handheld microphone's infrared port at the receiver's infrared port to allow communication.
6. **Recharge port:** Put in the microphone to recharge.

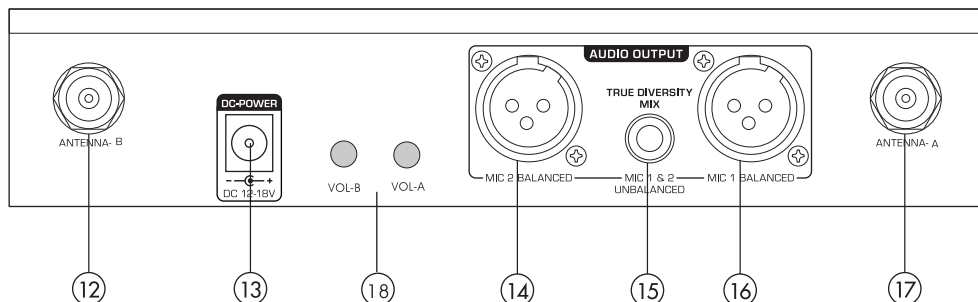
## LCD PANEL:

After turning ON the “POWER”, LCD screen will display the following:



- 8. **RADIO FREQUENCY LEVEL:** Strength indicator of radio signal.
- 9. **AUDIO FREQUENCY LEVEL:** Strength indicator of incoming audio signal.
- 10. **MUTE:** Indicates if microphone is powered off.
- 11. **FREQUENCY & CHANNEL:** Displays current frequency and channel.

## REAR PANEL:



- 12. **ANTENNA-B:** Connect the antenna to the BNC socket.
- 13. **POWER SUPPLY:** For power adapter with DC12~18V 500mA.
- 14. **MIC 2 BALANCED OUTPUT:** Balanced XLR audio output.
- 15. **MIXED OUTPUT:** Unbalanced 1/4" audio output for MIC 1 & MIC 2.
- 16. **MIC 1 BALANCED OUTPUT:** Balanced XLR audio output.
- 17. **ANTENNA-A:** Connect the antennne to the BNC socket.
- 18. **VOL-A, VOL-B:** Control the microphone- A or channel -B volume

## OPERATION

### HOW TO SELECT FREQUENCIES/CHANNELS FOR THE RECEIVER

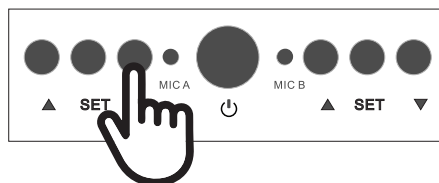
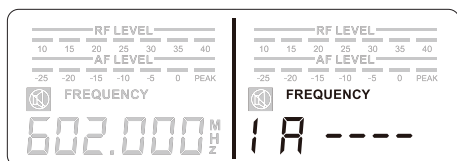
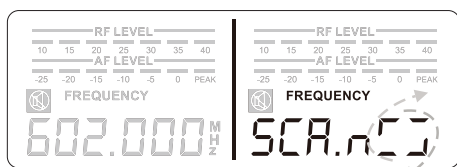
The 2-in-1 Base Module comes with two handheld microphones and each microphone is preset with 50 frequency channels.

The frequency can be selected either automatically or manually.

#### 1. AUTOMATIC FREQUENCY/CHANNEL SELECT

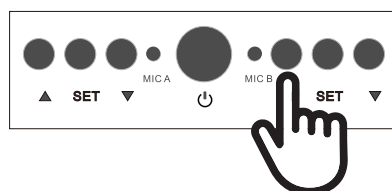
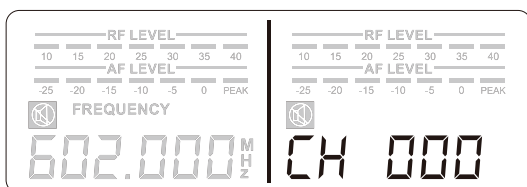
Press and hold **"DOWN ▼"** until **"SCAN"** displays.

Then the best frequency will be selected.

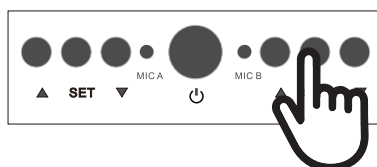
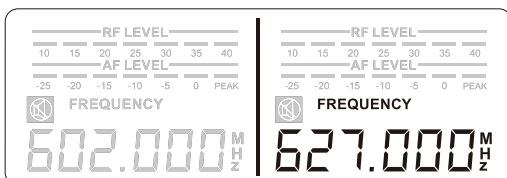


#### 2. MANUAL FREQUENCY/CHANNEL SELECT

**STEP 1:** Press and hold **"UP ▲"** on the receiver until the channel blinks.



**STEP 2:** While the channel is blinking, press **"UP ▲"** or **"DOWN ▼"** to select the desired channel. Then press **"SET"** to confirm the channel.



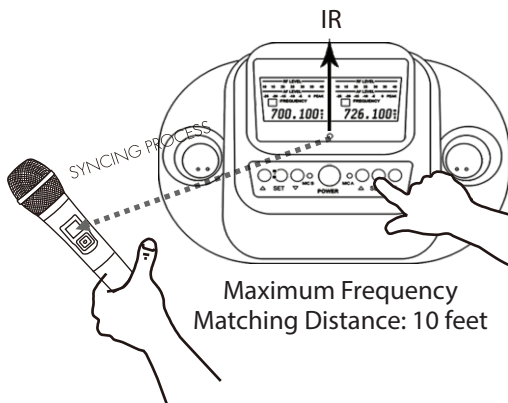
## BODY PACK TRANSMITTER SETTING

### 3. HOW TO MATCH RECEIVER'S FREQUENCY WITH MICROPHONE

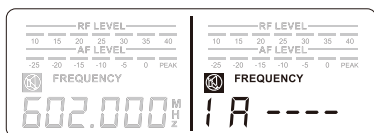
**STEP 1:** Turn ON the microphone, point the microphone infrared port (IR) directly at the receiver's IR PORT.

**NOTE:** Please make sure that the other handheld microphone is powered off when adjusting the frequency on one microphone.

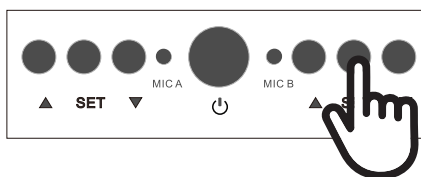
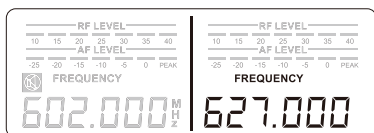
Each unit is fully tested and qualified by the manufacturer. However, due to the nature of wireless connection, interference may occur because of local environments and/or radio signals emitted by other wireless devices within the household.



**STEP 2:** Press and hold **"SET"** until **"! R - - -"** displays. Once syncing is completed the RF level bar appears and the **"MUTE"** icon disappears.

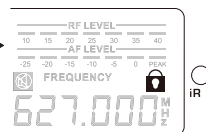
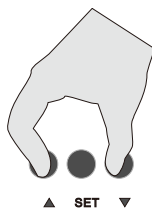
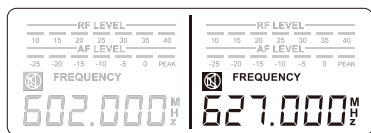


↓  
SYNCING  
PROCESS



### 4. HOW TO LOCK/UNLOCK THE DISPLAY

Press and hold **"UP ▲"** and **"DOWN ▼"** at the same time to lock/unlock the setting.



## TROUBLESHOOTING

| PROBLEM                             | STATUS                                                                                                                      | SOLUTIONS                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No sound or weak voice              | The transmitter LCD display off                                                                                             | Turn on the transmitter power.<br>Confirm that the + / - marks on the battery match with the head joint of the transmitter.<br>Insert a new battery.                                                                                                                                                                    |
|                                     | Receiver LCD display off                                                                                                    | Confirm whether a head of the AC power adapter is plugged into the power outlet and whether the other end is inserted into the DC power supply socket on the rear panel of the receiver. Check whether the AC power outlet is normal and confirm whether the power supply voltage is normal.                            |
|                                     | The display screen of the receiver shows that there is RF signal.                                                           | Adjust higher the receiver's volume control.<br>Check the cable connection between the receiver and the amplifier or mixer.                                                                                                                                                                                             |
|                                     | The display screen of the receiver shows that there is no RF signal.<br>The transmitter and receiver power indicators light | Elongate vertically the receiver antenna.<br>Move the receiver away from side of the metal objects.<br>Check if there are obstacles between the transmitter and the receiver.<br>Move the transmitter closer to the receiver.<br>Check whether the receiver and transmitter are used the same frequency.                |
| Distortion or excess of burst noise | The display screen of the receiver shows that there is RF signal                                                            | Remove the interference source nearby.<br>(Such as CD player, Computers, Digital device, Earplugs monitoring system, etc).<br>Change the receiver and transmitter to different frequency. Replace the transmitter battery. If you use multiple system, you can increase the frequency interval between various systems. |
| The transmitter can't be opened.    | Press the transmitter switch and it doesn't work or open once & closes automatically                                        | Replace the transmitter battery.                                                                                                                                                                                                                                                                                        |



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***Questions? Comments?***

We are here to help!

Phone: (1) 718-535-1800

Email: [support@pyleusa.com](mailto:support@pyleusa.com)