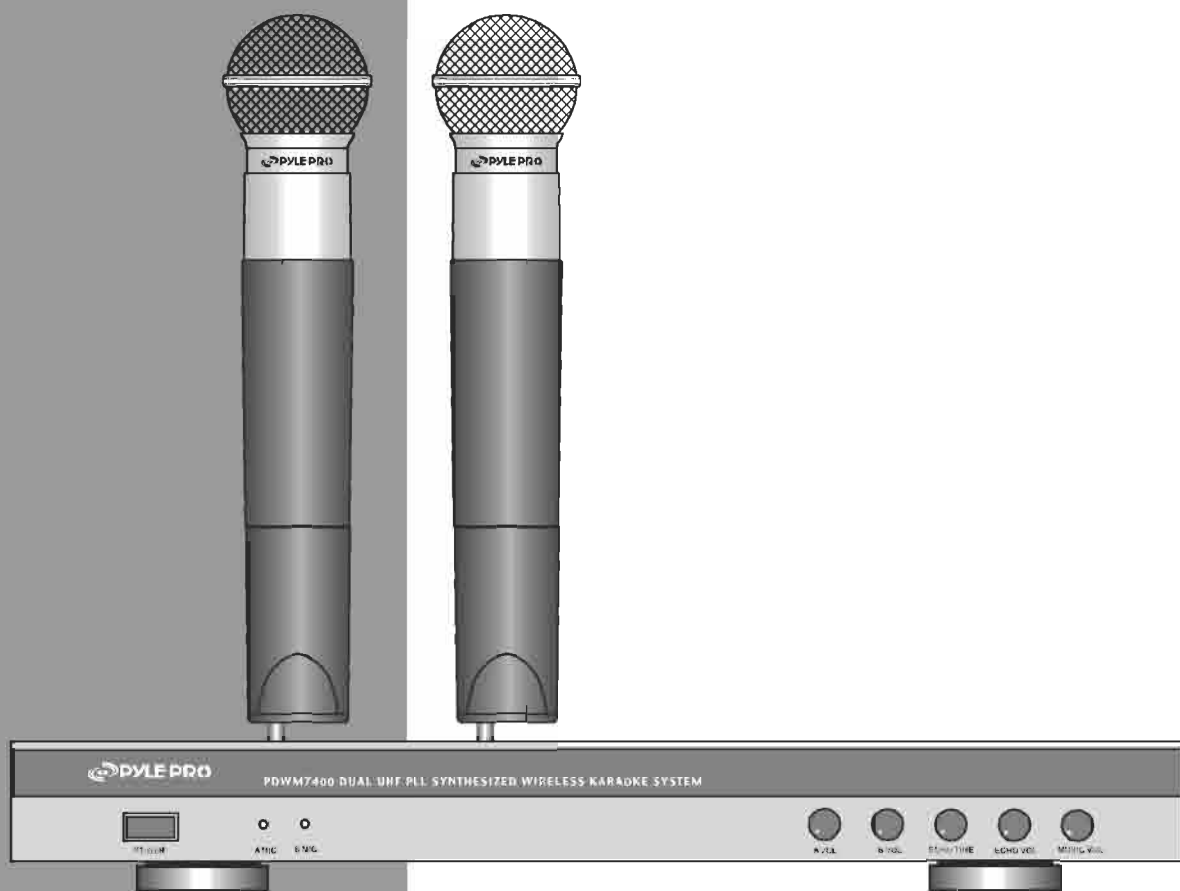




# PDWM7400 DUAL UHF PLL SYNTHESIZED WIRELESS KARAOKE SYSTEM USER GUIDE



# USER MANUAL

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## Introduction

Thank you for your trust and buy our UHF multi-channel professional wireless Karaoke system which is produced and developed by us. This multi-channel professional wireless Karaoke system is fitted for High-class home AV system. It can perfectly present your graceful and sweet voice. You can sing freely and enjoy the convenience of wireless system.

Please read the product brochure before use it

## High quality and reasonable price

This series of wireless microphone is made of professional dynamic cartridge, magnet, damp materials, diaphragm and bottom electrode which are elaborate choices. They make the sensitivity, direction, distortion, frequency response, S/N ratio, dynamic range, and Max input SPL up to the strict standard. It presents clear and sweet sound, high sensitivity. It is superior to other products. Most of the audio professionals know that the wireless microphones are often interfered by the factors of the surrounding environment. When we make research, we consider all the problems the users face, such as the steadiness, sensitivity, frequency signals, fidelity and transmit frequency points.

## UHF Transmission

### Why do we give up VHF?

Because The frequency of VHF ranges from 30-300MHz, the wavelength is range from 10-1m, while the frequency of UHF is range from 300-3000MHz, the wavelength ranges from 1-0.1m. From the above data, we can see that UHF could provide strong reflect ability and penetrability. Moreover, UHF isn't be used so much as VHF does, and its bandwidth is wide. It is helpful to the transmission stability and environment adaptability.

### Several multi-channel microphones could be used at the same time without interference.

This series is multi-channel microphone. Each system has several transmit frequency points. Several microphones could be used at the same time. They will free your party or Karaoke. From home-used, changing the channels could avoid the interference efficiently.

## The advantage of wireless microphone

It can provide the singers and actors with wide performing space, such as opera and drama. Because it is no need to set the wire for the microphone. It is time-saved.

## The feature of Karaoke

If the wireless microphone is only connected in the microphone input port of transmitter, it is easy to bring noise and distortion. PDWM 7400 is with internal professional echo and mixer. The professional echo chip for Mitsubishi is superior to the simple home-use internal echo. And the mixed noise is low. It can mix your voice and the music perfectly.

# Appearance And Structure

Each set of professional wireless Karaoke system includes the following accessories:

- (1) Professional wireless Karaoke transmitter (Figure 1), you can choose vertical transmitter
- (2) Professional wireless Karaoke receiver (Figure 2)

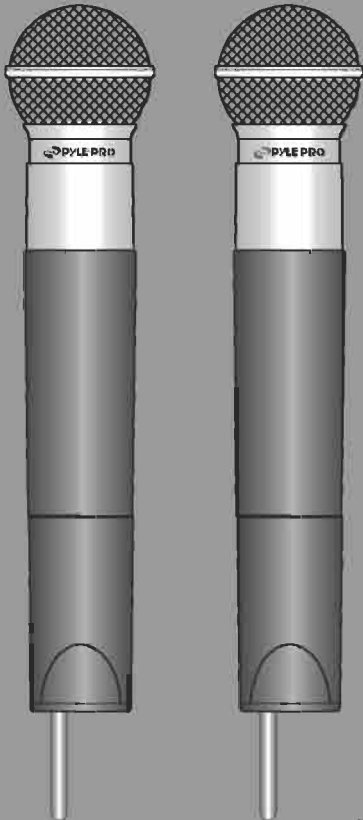


Figure 1

## Attachments form

Item	Quantity	Notes
Receiver	1	4 channels in single side
Wireless Microphone	2	Each with 4 channels
Transmitting Antenna	2	
Receiving Antenna	2	
Battery	6	1.5V AA size
Power Cord	1	
Frequency Cord	1	
Spare Fuse	1	

Please confirm all the accessories above when you purchase.

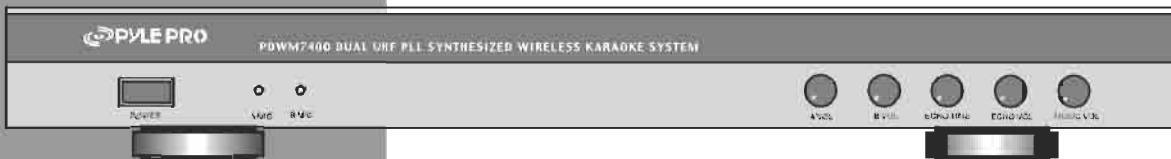


Figure 2

# Wireless Microphone Transmitter

## Accessories Diagram

(1) Grill: processes strong anti-bump ability.

(2) Hi-Fi dynamic microphone with windscreen: picks up the voice and music efficiently, reduces the wind noise.

(3) High strength microphone body.

**Notes: don't drop it from the high,  
keep it carefully, don't knock it and shake it badly.**

(4) Batteries tube: space for 3 pieces AA batteries. You can install or take out the batteries after you rotate the batteries tube.

**Notes: please take out the batteries if you won't use for a  
long period to prevent the batteries leaking.**

When you install the batteries, please do it as the batteries box shows.

(5) Transmitting antenna: it is used for signal transmission. Don't hold it or bent it.

**Notes: when it is in use, touching the antenna will reduce the  
transmitting power badly. The working range will shorten.**

(6) Power and Mute state indicator: turn on the power in the "ON" position, the indicator light will flash for a few seconds then keep bright, it means that you can sing. If you move it to the "Standby" position, then it is in mute state, the indicator light will go on flashing. When the color of indicator light becomes orange, it means that will be power-down. Please change the Hi-quality batteries.

**Notes: please use the Hi-quality batteries,  
High capacitance batteries are recommended.**

(7) Power and "Mute"/ "On" state switch.

Power switch : turn on or turn off the power.

**Notes: don't move the switch too fast or too frequent.**

**It will broke the switch and cause machine noise.**

(8) Microphone numbers indicates A or B, corresponding to the A/B microphones of receiver.

Microphone interior indication

(9) Channel switch indication: 1-4 channel. It will work normally when the channel is corresponding to the channel of the receiver.

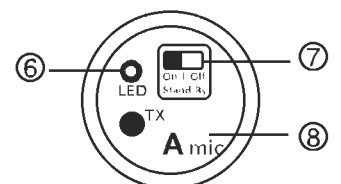
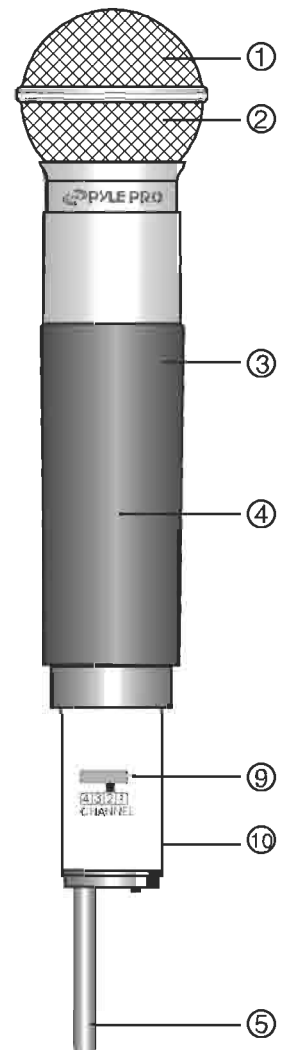
**Notes: please make sure that the numbers of channel  
of the microphone and the receiver are the same.**

(10) Battery clip: please install the batteries as the indicated direction. (3 pieces AA High-capitance batteries)

**Notes: don't install the batteries in the opposite position.**

**Please take out the batteries.**

**if you won't use it for a long period to prevent the batteries leaking.**



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## Rear Panel

- (1) DVD INPUT :Stereo music signal input ports should be connected to the DVD signal output ports.
- (2) MIX OUTPUT : the sound from the microphone will be mixed with the music signal to connect to amplify (DVD input).
- (3) Microphone signal output port is for spare. In most of the cases, it is no need to use it.
- (4) Channel Switch: 4 channels are available. More details for channel switch in Page 7
- (5) "A" microphone antenna socket: when you use it, please amount the antenna in it. Keep it in the 90 degree or 45 degree to the horizon. If several sets work at the same time, please keep antenna in 90degree to each.
- (6) "B" microphone antenna socket
- (7) Fuse: if the fuse is broken, please pull out the power line then re-amount it. If the Fuse is broken with unknown reason. Please check the power is corresponded to the local power standard.
- (8) AC input socket: different voltages in different countries. The voltage must accord to the it can it work normally.

**Notes: please find out the voltage in your areas.  
Otherwise it will damage yourmachines badly.**

**Too high voltage will result in problems,  
too low voltage will cause abnormal-operation.**

**Notes: when fix the fuse, please ask the professional electrician for help.  
Pull the power line totally then re-amount it ,  
otherwise, you may get an electric shock.**

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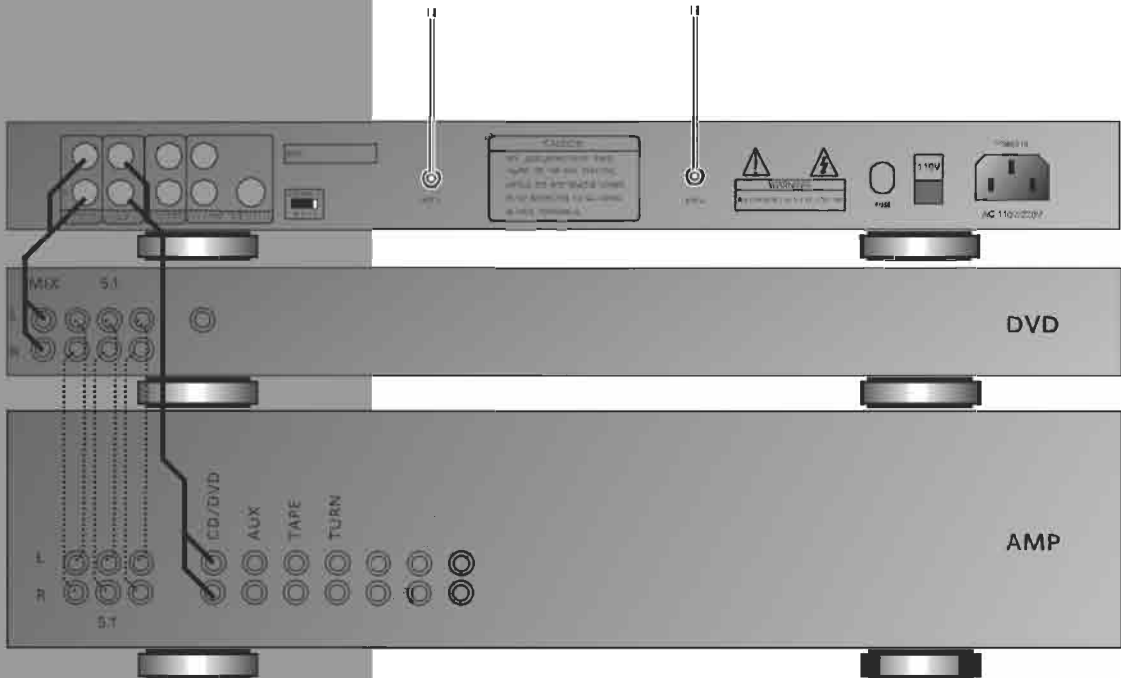
**Notes: when fix the fuse, please ask the professional electrician for help.**

**Pull the power line totally then re-amount it ,  
otherwise, you may get an electric shock.**

# Method of Mounting

It is with perfect echo function and signal-mixed circuit, please mount it in the way we suggested.

1. Please connect the DVD signal output as the black lines.
2. If both DVD and AV transmitter are with 5 input/output ports, please connect them as the broken lines.





## Usage

1. Turn on the receiver and turn off the microphone.
2. Adjust the channel-option switch of the receiver, choose a channel without noise. As Figure1.
3. Adjust channel-option switch of the microphone, choose the same channel as that of the receiver. as Figure2. AB microphones are in the same channel, as the Channel corresponding form below.
4. Turn on the microphone. At this moment, the display light of the microphone should be bright. As Figure 3.
5. Adjust the buttons of the receiver in the "Middle" position.
6. Turn on the DVD and AV transmitter.
7. Adjust the AV transmitter input-option switch, choose DVD In Stereo Input . If Stereo Input and Surround Input available, please choose Stereo Input.
8. Turn on the microphone, you can sing right now.
9. Adjust the Track-option switch and Tone-option switch, a better music accompaniment could be available. See the details about operation in the DVD manual.
10. Don't turn off the microphone in the process of using, you can turn off the voice of the microphone. Adjust the switch of the microphone to the "Standby" position; the voice will be turned off.
11. When you finish singing, please turn off the receiver, and then turn off the microphone.
12. When you use the microphone next time, no need to adjust the channels unless interferences happen.

### Channel- corresponding form

Receiver	Mic A	Mic B	Figure
Channel 1	Channel 1	Channel 1	Figure 1
Channel 2	Channel 2	Channel 2	Figure 2
Channel 3	Channel 3	Channel 3	Figure 3
Channel 4	Channel 4	Channel 4	Figure 4

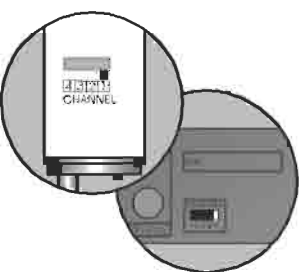


Figure 1

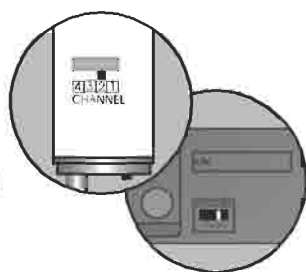


Figure 2

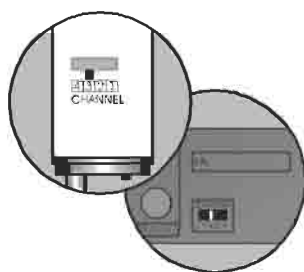


Figure 3

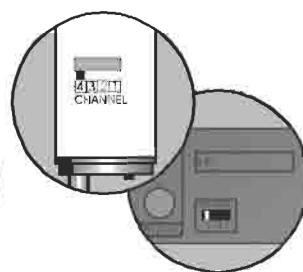


Figure 4

# Solutions for usual troubles

The wireless Karaoke system has passed strict QC standard. In the process of using, most of the troubles are caused by error operation and could be solved easily. Now we illustrate some usual troubles and solutions.

1. The receiver gets some interfering signals. When a channel meets interfering signals, changing the channels could avoid the interference effectively.

2. No sound. The causes vary, error operation is key factor. There are some usual factors as following. Please check carefully.

Whether amount the batteries exactly. Please amount the batteries in the direction as the battery box shows.

Whether the power is enough. If the orange light is flashing, that means the power will be off. Please change new Hi-capacitance batteries.

Whether the switch is in the right position: There are three positions for the switch. The middle one is "Silent", please switch it to the "ON" position.

Whether the connection is right: please check the connection as we mentioned before, check if the AV transmitter is with the right signal input port.

3. Uncorresponding channels could cause "No sound". Please check the receiver and the wireless microphones are in the same channel. If they are not in the same channel, please consult Page 8 for more details.

4. Please confirm the connection is right.

5. If there are still some troubles, please set it to the manufacture for repair.

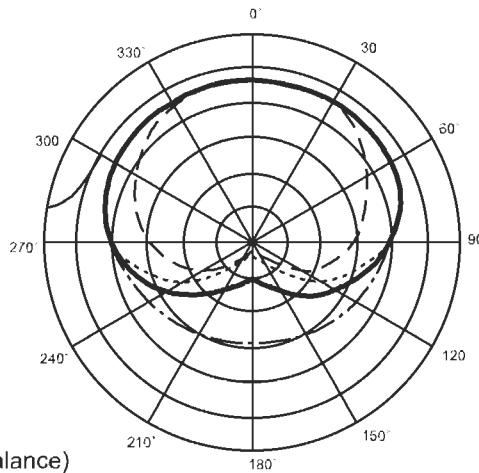
# Specification

## Wireless microphone

RF Power: 30mw(Max)  
 Pre-emphasis: >50us  
 Cartridge: Dynamic  
 Battery: 3 pieces AA batteries.  
 Power consumption: 60mA  
 Dimension: 52x247mm  
 Weight,OZ.(g): 8.0( 227g)

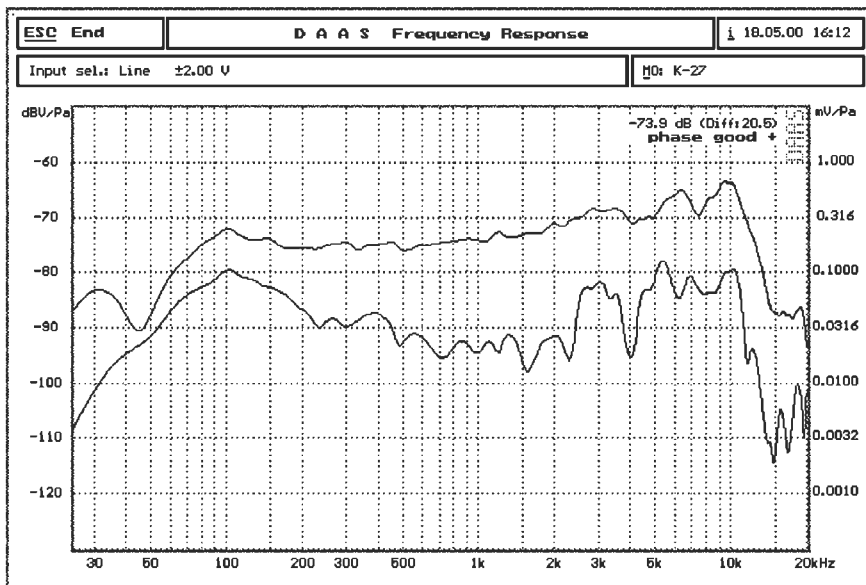
## Wireless receiver

Receiver system: u-pc control PLL locked frequency  
 Sensitivity: 12dB S/N, 1uV  
 Frequency range: 470~580 Mhz  
 De-emphasis: <50us  
 Audio Output Level: 0db(600Ω)  
 Output connect: 6.3mm plug (Unbalance) and 3 pins cannon (Balance)  
 Power supply: ~110V/220V (Selectable)  
 Dimension,inches(mm): 17.1x9.8X1.8inches (435x250x45mm)



### LEGEND

100Hz ——— 5kHz - - - - -  
 1kHz ——— 8kHz - - - - -



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