

AV-ART **WR-930 SERIES**

Instruction Manual

Thank you for purchasing this product

Please read this manual before using Guarantee included



PRODUCT WARRANTY

AVART PRODUCT WARRANTY

CLIENT:_____

DISTRIBUTOR

DATE:_____

PRODUCT:_____

SERIAL NUMBER:_____

CONTACT:_____

Description

This product is through high-quality products strict quality management and inspection, where the customers to buy the products in normal use can be according to the following guarantee.

1. By the letter of guarantee from the date of purchase within one year. In normal use failure or damaged parts replacement parts free of charge.
2. In the guarantee period, natural disaster, because of improper operation or other human factors (including non repair or replacement of damaged the company's installation site damage) the parts are damaged, or fails to provide guarantee, the guarantee period or more will charge the parts cost.
3. Generally outside the family (such as business relations, long time use business places, vehicle or ship) using site failure or not in the free repair guarantee range.
4. If malfunction, please stop using do not self demolition, so as not to affect the product quality and safety.
5. Please keep the warranty, if the loss of the company is no longer a replacement, the guarantee if no seller signature also no effect.

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Product features

Wireless microphone to the company's use of UHF automatic frequency and high sensitivity, its biggest characteristic is can be wired microphone equal quality and stability, can also enjoy free singing sensation.

The wireless system for radio frequency of 2 32 band, A CH(Hz) and B CH (Hz), select the appropriate frequency range.

Antenna streamlined microphone tube body and a hidden type can have a comfortable grip and easy battery replacement, patent design does not drain battery liquid so that the microphone is stronger.

Note: Only use frequencies that at approved and legal in your country and follow this instruction manual.

TECHNICAL SPECIFICATION

Technical data and specifications (System characteristics)

Carrier Frequency Range: UHF518MHZ~928MHZ

Frequency stability: $\pm 0.005\%$

Modulation: FM

Peak deviation: $\pm 48\text{KHZ}$ with Audio Compandor

AF Frequency Response: 50HZ~18KHZ

Operation Temperature Range: $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$

(Receiver characteristics)

Antenna inputs: 4 monopole Antenna (2 Monopole Antenna with power splitter)

Receiving principle: True Diversity

Oscillator: PLL synthesized

Receiving Sensitivity: At 12dBuV antenna input over 80dB S/N ratio

Audio dynamic range: $> 90\text{dB}$

S/N ratio : $> 100\text{dB}$, at peak deviation and 50dBuV antenna input

Total Harmonic Distortion : $< 1\%$ (at 1KHZ)

Receiving Squelch: SQ VR (at Max): 25dBuV antenna input

SQ VR (at Min): 10dBuV antenna input

Audio output level: Balance Max. -12dBV (Mic) 660 Ω Load

Unbalance MAX. -5dBV (Line)/ -15dBV (Mic)/660 Ω Load

Power Supply: 12VDC 400mA $\pm 50\text{mA}$

SIZE (L \times W \times H) about 43 \times 30 \times 7cm

Weight: about 1857g

(Transmitter Characteristic)

RF Power output: 10dbm (High)/ 4dbm (Low) (Hand-Held)

10dbm (pocket)

Oscillator: PLL synthesized

Current consumption: 150mA (High)/60mA (Low) (Hand-Held)

95mA (Pocket)

Battery: DC1.5V(AA) $\times 2$

Size: Hand-Held: $\phi 53 \times 240\text{mm}$

Pocket: 112 \times 66 \times 25mm (L \times W \times H)

Weight: approx. 390g (Hand-Held) (without battery)

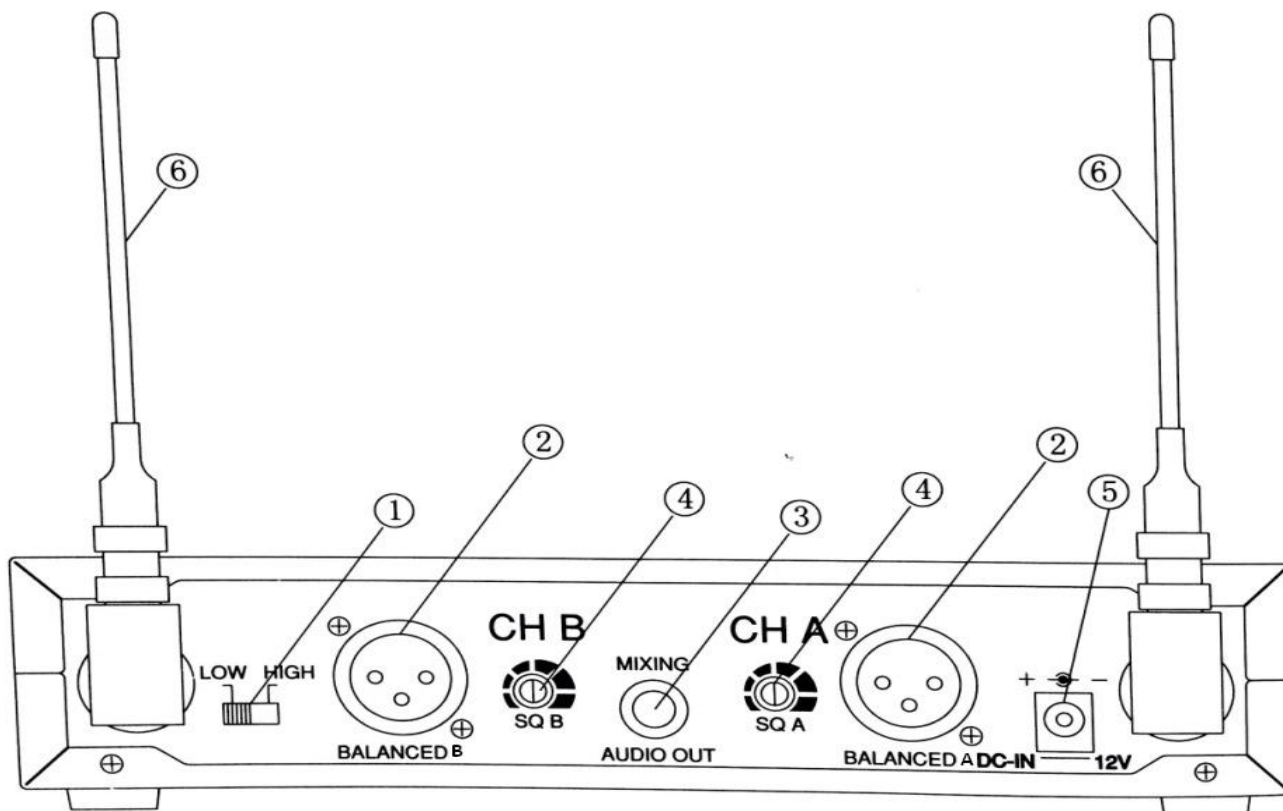
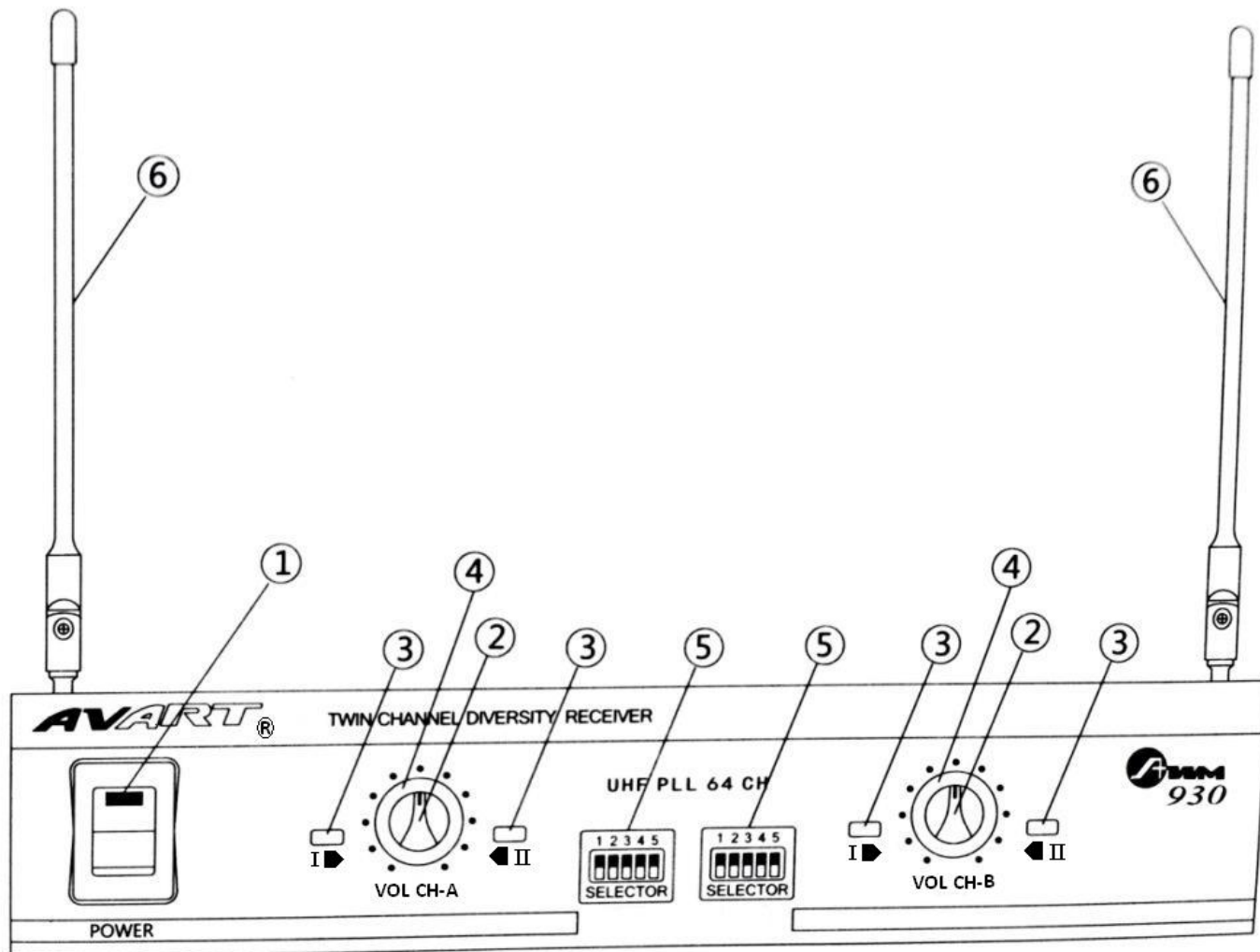
approx. 86g (pocket) (without battery)

WR-930A/WR-930D SPECIFICATION

1. Power switch: Operate the receiver (when receiver turns on, the light is bright.)
2. Volume controller: Control the level of volume (before switching on the power, please turn the volume to min. to protect loudspeakers of your system.)
3. Diversity A.B. Indicator: This LED lights to indicate that A or B RF signal is being received.
Interference Indicator: This LED lights with red color to indicate the chosen frequency are interfered, you must to change another frequency from channel selector.
4. AF level signal lamp: Indicate Audio signal level. The audio signal with microphone emits, the LED is bright.
5. 32 channels selection: Offer 32 channels. A CH is from 614 to 630 M Hz: B CH is between 677 and 693 M Hz. (Set the receiver and transmitters in the same channel.)
6. Antenna: Fixed antenna turns 180°. The best position is right angle (90°), referring to the picture as below.

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1. Balanced /Unbalanced volume switch: "LOW" represents audio output; "HIGH" stands for AUX output.
 2. XLR output: Output for the XLR audio signal.
 3. ϕ 6.3 A CH+B CH mixing audio output.
 4. "SQ" controller: Level of SQ can be reset if needed. Increase muting in clockwise to avoid signal interference, but shortening the best situation after assembling.)
 5. DC power supplier plug: connecting DC power adapter (DC 12~15V, 800mA)
 6. Antenna: Fixed antenna turns 180°. The best position is right angle (90°), referring to the picture as below.

| | | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CH 1 SELECTOR | CH 2 SELECTOR | CH 3 SELECTOR | CH 4 SELECTOR | CH 5 SELECTOR | CH 6 SELECTOR | CH 7 SELECTOR | CH 8 SELECTOR |
| CH 9 SELECTOR | CH 10 SELECTOR | CH 11 SELECTOR | CH 12 SELECTOR | CH 13 SELECTOR | CH 14 SELECTOR | CH 15 SELECTOR | CH 16 SELECTOR |
| CH 17 SELECTOR | CH 18 SELECTOR | CH 19 SELECTOR | CH 20 SELECTOR | CH 21 SELECTOR | CH 22 SELECTOR | CH 23 SELECTOR | CH 24 SELECTOR |
| CH 25 SELECTOR | CH 26 SELECTOR | CH 27 SELECTOR | CH 28 SELECTOR | CH 29 SELECTOR | CH 30 SELECTOR | CH 31 SELECTOR | CH 32 SELECTOR |

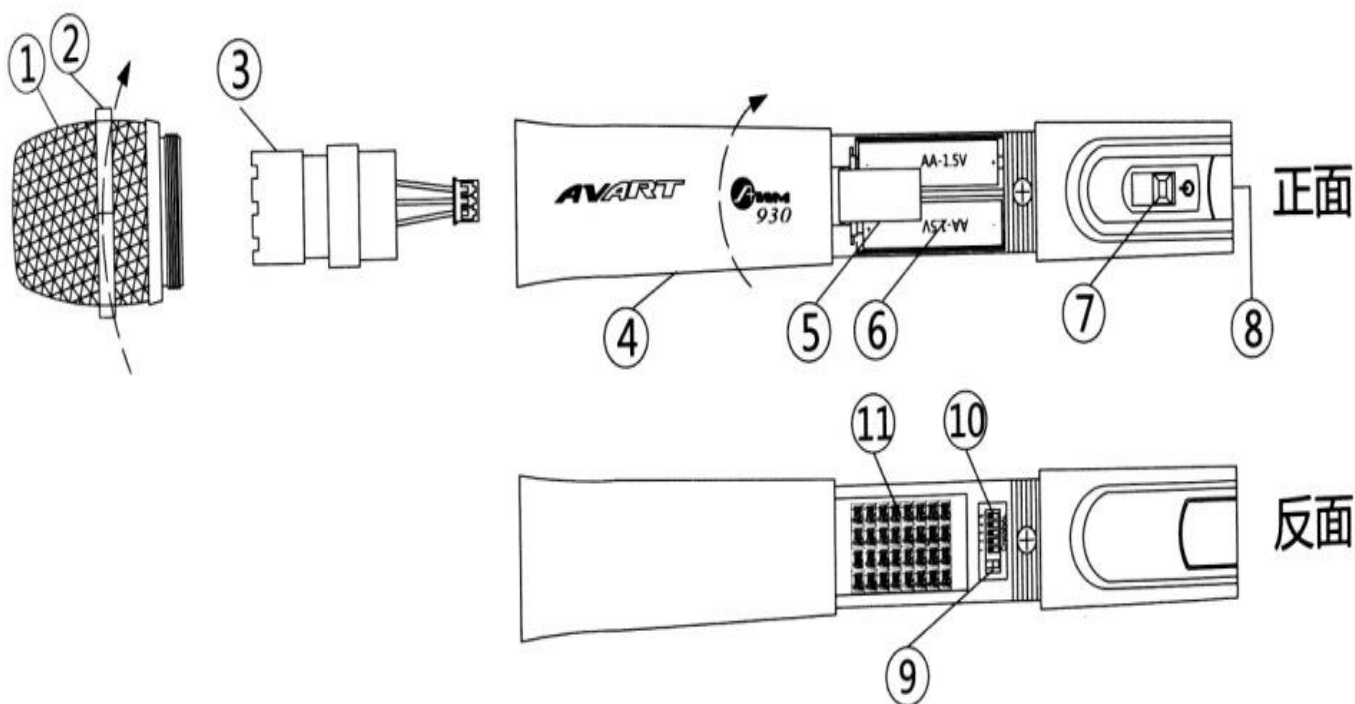


WM-915 DESCRIPTION OF FUNCTION

1. Microphone head: Protect microphone unit and reduce noise “POP”
2. Color-coded protection ring: avoid microphone rolling on the surface and help to distinguish different channels.
3. Sound head: the sound signal is converted into electronic signals. This product uses a separate portfolio.
4. Microphone body: Metal or plastic material (Metal material presents better texture. Plastic material is easy to use.) Chassis assembling with microphone unit and PCB inside the body and battery case are one-piece molding.
5. EVA pads: prevent battery loose.
6. Battery case: Insert batteries & ensure the correct polarity(2×AAA)
7. Power switch: Turn “ON” when using microphone; turn “OFF” when not using microphone.
8. Audio level signal lamp: Indicate the level of the receiving voice. The louder the sound is, the brighter the LED is.
9. RF power level switch: To change transmitter RF power.
10. 32 channels selection: Offer 32 channels shoeing as below. (Set the receiver and transmitters in the same channel.)
11. Frequency standard: marking channel selector corresponding to the frequency of each channel, there are 32 combinations.

Main features

1. Emission circuit using PLL phase radiation characteristics of low harmonic most stable locking oscillation circuit.
2. Emission circuit adopts a channel selector, channel to set the use, the channel must be the same, and receiver channel, simple operation, low failure rate.
3. The connecting end and transmitting circuit with 3 sound head, easy disassembly and assembly, with a variety of sound head for the user to debug using.
4. Head and body aluminum upper separate circuit switch combination , ON/OFF, audio display light (blue light) with power shortage and display (red light) in combination with aluminum tube at the lower part of the body of plastic components , replace the battery 2 AA5 batteries) or confirm the channel, on the lower body to plastic components ,convenient operation.
5. Transmitter module exclusive design (sound head, transmitting circuit) and the network head, aluminum body with one firm, no fracture. The battery holder and transmission circuit isolation patent design, battery fluid will not damage to a transmitting circuit, the battery will not loose.



| | | | | | | | |
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TROUBLESHOOTING

NOTICE

1. These products follow the relevant regulations set by NCC, Taiwan & FCC, The U.S.A.
2. It is possible to cause interference between different RF in UHF system.
3. Do not point microphone head direct to speaker to avoid loud hissing noise which may cause damage to your hearing or the loudspeakers of the system.
4. Do not use external force to damage products for a longer lifetime.
5. Do not place or storage products in the environment of high humidity and temperature for a long time.
6. Please remove batteries for protection of the transmitters when not using transmitters in a long time.
7. Do not take the products apart to repair by yourself if any problem occurs.

Solution for frequent asked problem

| Problem | Possible cause | Possible solution |
|---|--|---|
| No RF signal | Microphone and receiver are not on the same channel. | Set the microphone to the same channel as the receiver |
| | Microphone is out of range. | Check the squelch threshold setting |
| | | Shorten the distance between microphone and receiving antenna |
| | | Ensure the correct polarity and turn on the switches. |
| | Microphone or receiver turns off. | Replace new batteries. |
| Disconnection to a certain channel or noise | Signal interference from the environment | Reposition the antennas |
| | | Reset "SQ" |
| | | Set the microphone and receiver to another channel |

Cautions to the user

Notice:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF exposure statements

IMPORTANT NOTE:

To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.