



CLA-2/4 channel WM800 series

Professional Digital Wireless Microphone

Installation & Operating Manual

Safety Operation and Precautions

- ❖ Please read this safety operation instruction carefully before installing and using the equipment. Please keep your safety The operation guide is convenient for future reference.
- ❖ Do not scratch, bend, twist, stretch or heat the power cord, otherwise the power cord may be damaged, resulting in fire or electric shock.
- ❖ Please do not open the housing of this device, otherwise it may cause electric shock. If overhaul, maintenance or repair is required, please contact the local agent.
- ❖ Do not touch the power plug with wet hands, otherwise it may cause fire or electric shock.
- ❖ If the power cord is damaged (such as broken wire or exposed core wire), please obtain a replacement from the agent. Continuing to use the device with the damaged power cord may cause fire or electric shock.
- ❖ To move the position of this device, please turn off the power first, pull out the power plug, and pull out all connecting cables, otherwise the cables may be damaged, resulting in fire or electric shock.
- ❖ Before cleaning the equipment, unplug the power plug and all connecting cables. Please use a dry soft cloth to clean.
- ❖ If the equipment is not used for a long time, please turn off the power and unplug the power plug. For safe use and adequate ventilation of the equipment, the minimum clearance around the equipment shall be 5cm.
- ❖ The ventilation hole shall not be covered with plugs, such as newspaper/cloth/ curtain, which may hinder ventilation.
- ❖ Exposed fire sources, such as lighted candles, shall not be placed on the equipment.
- ❖ Do not litter the battery when it is discarded, please put it into the designated recycling box.
- ❖ The equipment can be used normally under tropical/temperate climate conditions.
- ❖ The equipment shall not be placed, such as vases and other objects filled with liquid, to prevent the equipment from being subjected to water drops or splashes.
- ❖ Terminals marked with danger warning sign "  " on the equipment are warning of dangerous electrification. External wires connected to these terminals need to be installed or used by instructed personnel.

Product Introduction

Receiver Features:

- ❖ New concept of anti-electromagnetic interference circuit design to eliminate electromagnetic interference from mobile phones and other electronic products
- ❖ ·HD 256*64COG display, The menu is clear and easy to operate
- ❖ With the 4 channel receiving design, 4 wireless microphones can be connected;
- ❖ Built-in 20 sets of preset frequency modules, PLL phase-locked loop circuit design, pure automatic selective signal receiving mode
- ❖ One key to modify the four-channel frequency group, four channels to modify the frequency group at the same time, and also support manual modification of the frequency of each channel to facilitate debugging and installation.
- ❖ The design of shuttle knob with light ring, together with LCD, shows volume, module, frequency, AF / RF signal strength and setting operation.
- ❖ With electronic volume control, the volume gain of each channel can be adjusted from 0dB to 20dB through the front shuttle knob.
- ❖ Infrared data automatic synchronization function (SYNC): 4 independents infrared frequency-matching buttons, one-key automatic frequency-matching, eliminating all complicated operations.
- ❖ Use UHF530-670MHz frequency band carrier.
- ❖ It is equipped with 4 BNC antennas as standard, and also can be equipped with external extended anti-interference antenna, which can bypass the shielding of metal cabinet for wireless signal, and the effective working distance is 60m
- ❖ Cooperate with the antenna distribution system to achieve full coverage of wireless signals at the venue.
- ❖ The 1U standard cabinet design with metal shell is easy to install.

Technical characteristics of conference launch unit:

- ❖ Metal panel design, built-in antenna, high-end and solemn.
- ❖ With aluminum alloy square microphone, it is connected to the microphone base through a fixed connector, and the pitch angle can be adjusted. The overall stability, high-end and stylish
- ❖ The microphone is designed according to the principle of acoustic space, and with the new anti-howling anti-single-point high-sensitivity condenser microphone core, the conference sound quality can be realized with high fidelity.
- ❖ Sensitive Induction touch switch, the pattern of the switch is always bright green when it is on standby, and it is always bright red when pressed
- ❖ With a 2.4-inch high-brightness IPS TFT display, the display content is clear, and it can display the microphone frequency, battery level and operating status
- ❖ Microphone with speaking timing function
- ❖ With electronic volume function, can individually adjust the microphone speaking volume
- ❖ New concept of anti-electromagnetic interference circuit design to eliminate electromagnetic interference from mobile phones and other electronic products
- ❖ Operation distance up to 90 meters with the best condition with clear line of site
- ❖ Built-in high-performance lithium battery, with TYPE-C interface, support charging while using
- ❖ Ultra-low power circuit design,
- ❖ Battery backup: 12hour.

Receiver installation and connection

Installation:

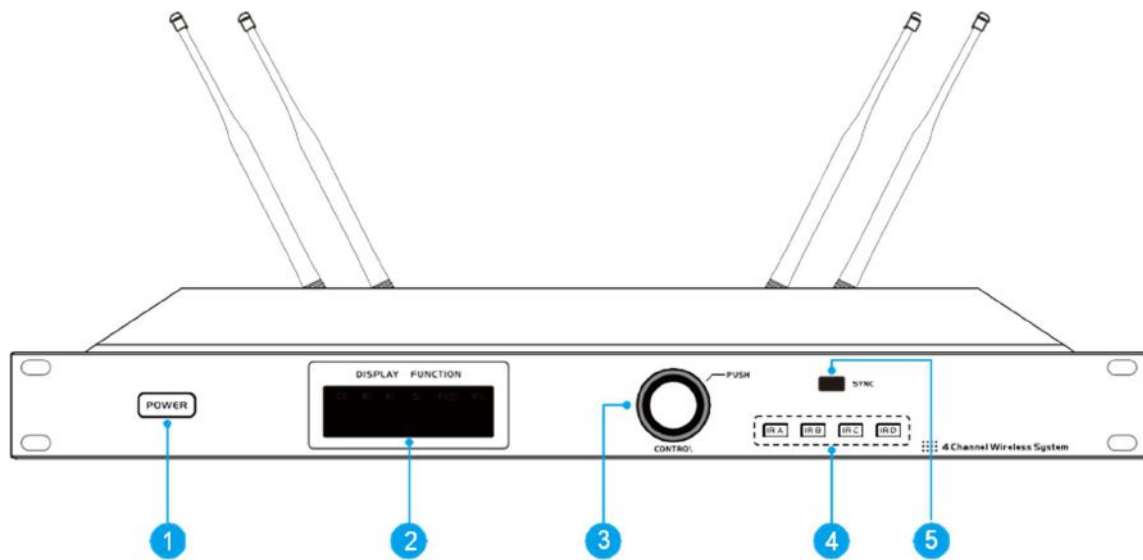
- ❖ To achieve optimal equipment operation, the receiver should be higher than 1 meter from the bottom and at least 1 meter from the wall surface.
- ❖ Keep the antenna away from interference sources, such as computer equipment, digital devices, televisions, and cars, as well as large metal objects.
- ❖ Install the two antennas on the antenna base of the rear panel and pull the antenna to a position at a 45 ° angle to the vertical line.
- ❖ From the location of the receiver to the location where the transmitter is used, minimize obstacles as much as possible, and have the best visibility.
- ❖ When two transmitters are used simultaneously, the distance between the transmitter and receiver should be at least 2 meters.

Connections

- ❖ Connect the power supply to the power input socket of the receiver.
- ❖ (Note: The input voltage of the AC power adapter must be within the power specification range that matches the region of use.)
- ❖ There are two types of audio output terminals on the rear panel of the receiver, namely XLR socket and 6.3mm socket, which are connected to the mixer using shielded audio cables:
- ❖ If the input terminal of the mixer is XLR balanced input, use a shielded audio cable to disconnect the XLR balanced output from the rear panel of the receiver to the mixer.
- ❖ If the output terminal of the mixer is a 6.3mm socket, connect a shielded audio cable from the 6.3mm output terminal on the receiver rear panel to the mixer. Both sets of outputs can be used simultaneously

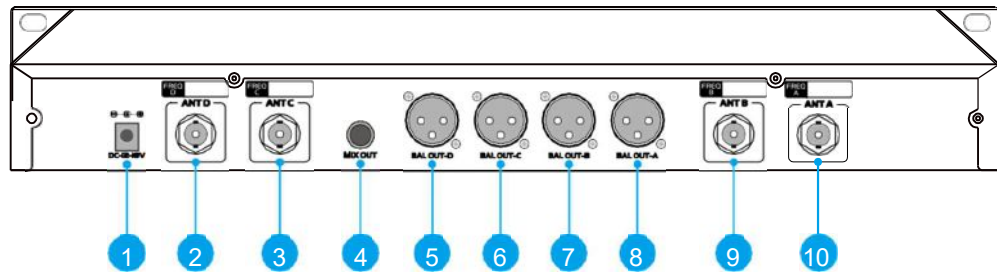
Receiver control and functions

Front panel:



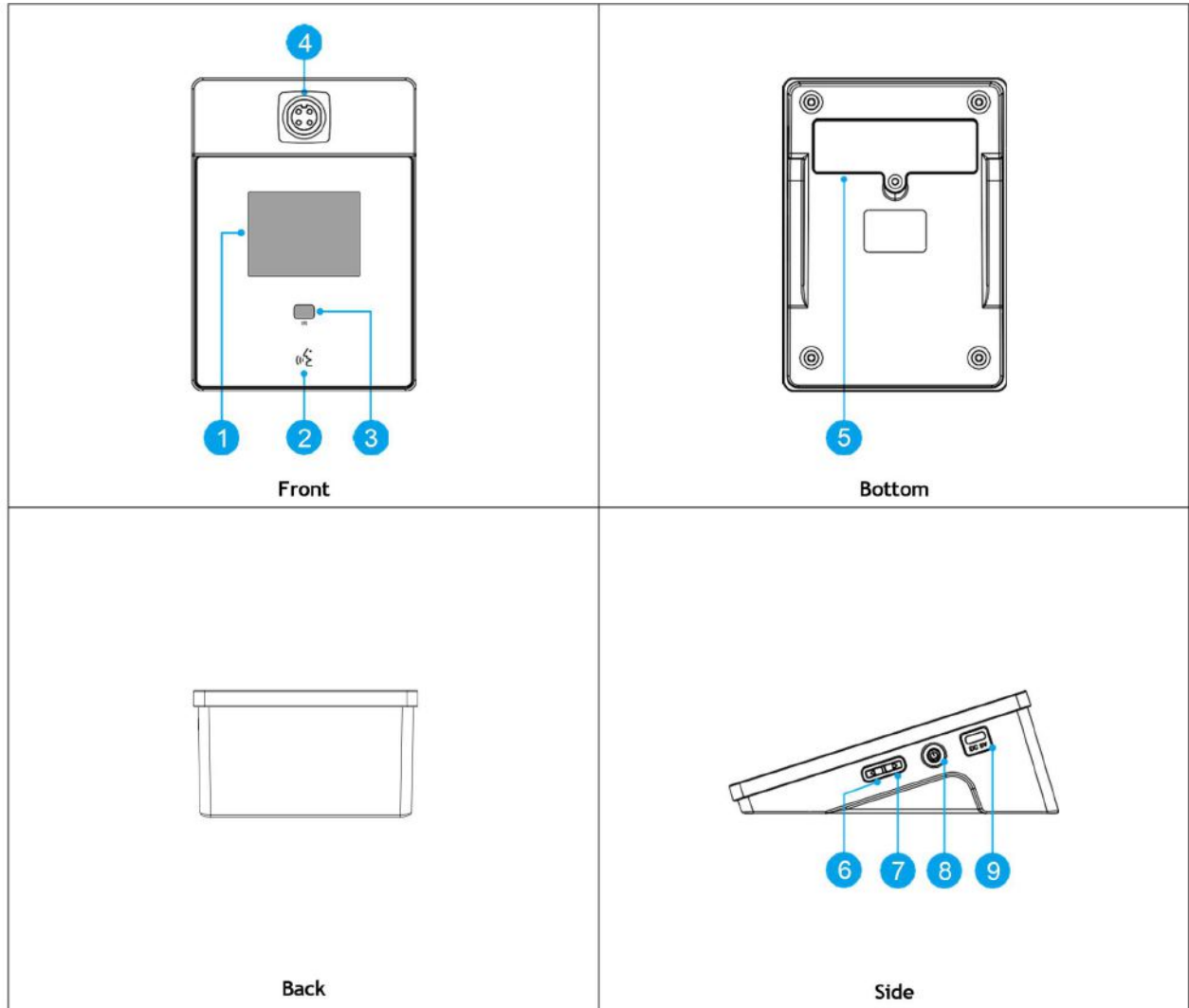
1. Switching power: Press the switch for 1 second to turn on the circuit, and then press it for 3 seconds to turn off the power.
2. LCD screen: LCD display screen, displaying the usage status data, module, operating frequency, and volume of 4 channels.
3. Shuttle knob with light: Rotate to select the corresponding parameters for modification.
4. 4 channel infrared data transmission button (IR A, IR B, IR C, IR D): Press the
5. corresponding button to transmit the frequency data of the receiver channel to the transmitter.
6. Infrared Data Transfer Window (SYNC): An infrared frequency comparison window that transmits channel data from the receiver to the transmitter, synchronizing the frequency between the transmitter and receiver. Both ABCD channels use this infrared window for frequency alignment.

Rear panel:



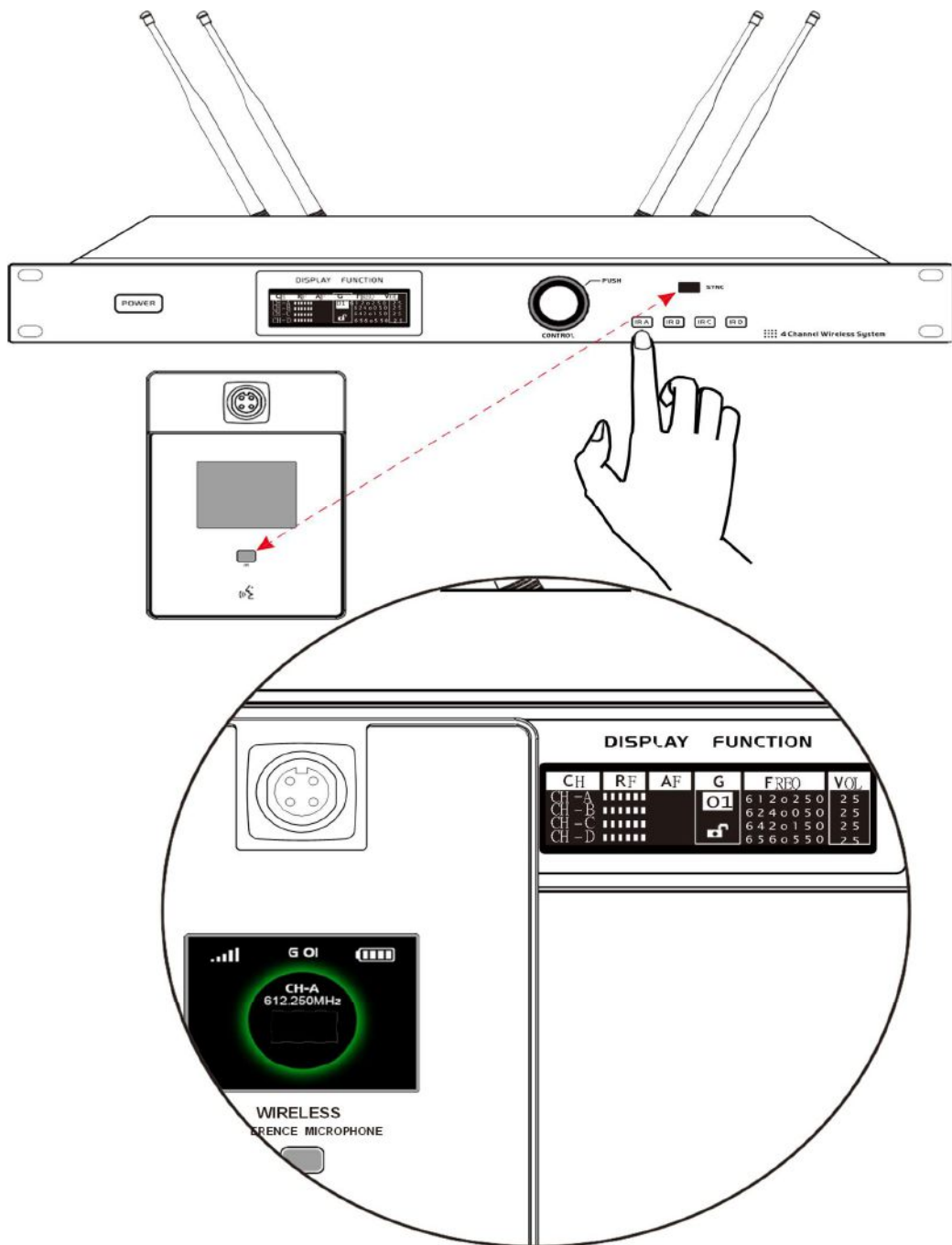
1. DC power input socket: 12V/1A, connected to the output port of the power adapter
2. Antenna D interfaces: connect the receiving antenna.
3. Antenna C interfaces: connect the receiving antenna.
4. Unbalanced mixed output socket: 6.3mm socket, ABCD channel mixed output.
5. D-channel balanced Han outlet sockets.
6. C-channel balanced Han outlet sockets.
7. B-channel balanced Han outlet sockets.
8. A-channel balanced Han outlet sockets.
9. Antenna B interfaces: Connect the receiving antenna.
10. Antenna A interfaces: Connect the receiving antenna.

Conference / Wireless Gooseneck microphone transmission unit:



1. High brightness 320 × 240 IPS TFT display screen: LCD displays signal, battery level status, operating frequency and channel, and battery level. Battery level indicator, fully charged to 4 cells. When only 1 cell is left, please charge as soon as possible
2. Touch type microphone on/off button: Press this button to directly turn on/off the microphone. When the microphone is turned on, the microphone on/off button and the red indicator light circle remain on. When the microphone is turned off, the green color of the microphone on key is always on.

3. Infrared data receiving window: Infrared frequency window (iR), which receives frequency point data transmitted by the receiver.
4. Detachable microphone tube spiral movable interface: can be connected to a regular gooseneck microphone tube.
(When using a square microphone tube, this interface will be changed to a fixed interface and cannot be disassembled)
5. Battery compartment: Fill one 18650 rechargeable lithium battery. (Warning: Do not install the battery with incorrect polarity, as this may damage internal electronic components)
6. Microphone volume reduction: Pressing this button will reduce the speaking volume, with a minimum volume of 1.
7. Microphone volume increase: Pressing this button will increase the speaking volume, with a maximum volume of 8.
8. Microphone power on key:
9. Press for 1 second to turn on the power to the transmitter. Press continuously for 3 seconds to disconnect the power supply.
10. TYPE-C charging interface.



Receiver technical specifications:

- ❖ Working voltage: DC12V Power consumption:<7.2W
- ❖ Main control computer size: 483mm × 235mm × 45.3mm Main control unit weight: 3.1kg
- ❖ Frequency range: UHF530-670MHz
- ❖ (frequency band can be changed as needed) Band width: 30MHz
- ❖ Number of channels: 4CH Modulation method: FM Oscillation mode: PLL Sensitivity:>60dB @ 25KHz, 6dBv
- ❖ Maximum offset: $\pm 45\text{KHzS/N}$ > 105dB
- ❖ T. H. D: < 0.7% @ 1KHz
- ❖ Frequency response: 20Hz~20KHz $\pm 3\text{dB}$
- ❖ Effective working distance: 60 meters (visible distance) Audio output interface: unbalanced 6.35mm × 1
- ❖ Balanced XLR × 4 Audio signal receiving interface: BNC × 4

Technical indicators of conference launch unit:

- ❖ Working voltage: DC 3.7V --4.5V
- ❖ Power consumption: standby: $\leq 350\text{mW}$,
- ❖ speaking state: $\leq 620\text{mW}$
- ❖ Display screen: 2.4-inch 320 x 240 IPS TFT
- ❖ Working hours: 10 hours
- ❖ Working temperature: -9°C -40°C
- ❖ Size: 101.7x148 x 56.5mm
- ❖ Weight: 0.65 kg base,
- ❖ 0.07 kg gooseneck microphone Frequency range: UHF
- ❖ Oscillation mode: PLL
- ❖ Harmonic radiation: <-65dBm Maximum offset: $\pm 45\text{KHz}$
- ❖ Microphone input: capacitive unidirectional
- ❖ Rf power output: 15MW



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