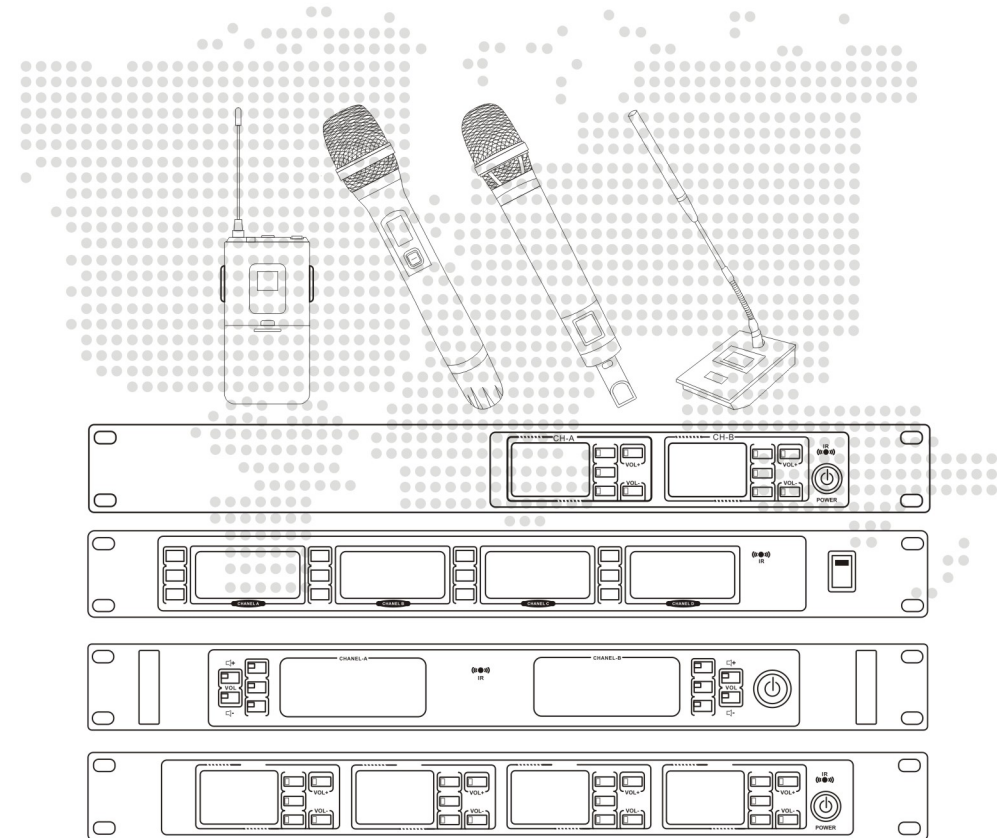




PRO AUDIO

M-5000

WIRELESS MICROPHONE



Instruction Manual

Introduction

This is an extremely cost-effective UHF wireless microphone system. The main feature is that the transmitter uses a simple and bright LED digital light to display the current channel Frequency and battery power, and the receiver also uses a high-brightness LCD display to display the corresponding product information. With [IR] infrared automatic frequency matching function, the transmitter can automatically and Lock the selected application frequency. The transmitter is designed with an aluminum alloy shell, which is sturdy and durable. The receiver is a standard 1U all-metal shell design that supports volume adjustment, channel adjustment and other functions. The effective working distance is about 150 meters. Suitable for commercial performances, schools, government and enterprise projects, personal and home entertainment applications.

- UHF dual channel wireless transmission, providing high-fidelity sound;
- Widely used in business performances, schools, government and enterprise projects, personal and home entertainment applications;
- DSP digital audio companding, using 48KHz audio sampling rate to minimize the noise in the wireless transmission system;
- The output volume and monitor earphone volume can be adjusted;
- Multiple switchable frequency to realize operation without environmental interference;
- Infrared automatic frequency matching and lock the corresponding frequency;
- Use LCD display to display corresponding product information;

Product technical indicators are as follows:

Dual Channel Receiver Technical Parameters

Receiving mode: dual channel, super heterodyne;
Image rejection: 45dBm;
RF sensitivity: $S/N \geq 45\text{dB}$ when inputting 10dBu;
Squelch adjustment: built-in setting parameters;
Frequency synchronization method: manual button setting or IR frequency;
Max. output level: LINE: 0.5Vpp;
Output level adjustment range: 30 levels adjustable, attenuation adjustment, every 1dB step;
Power supply mode: DC 12V /1A
Normal working current: DC12V :180mA;
Battery life: ≥ 7 hours;

Quad-Channel Receiver Technical Parameters

Receiving mode: Quad channel, super heterodyne;
Image rejection: 45dBm;
RF sensitivity: $S/N \geq 45\text{dB}$ when inputting 10dBu;
Squelch adjustment: built-in setting parameters;
Frequency synchronization method: manual button setting or IR frequency;
Max. output level: LINE: 0.5Vpp;
Output level adjustment range: 30 levels adjustable, attenuation adjustment, every 1dB step;
Power supply mode: DC 12V /1A
Normal working current: DC12V: 180mA;

Product technical indicators are as follows:

Syetem Technical Parameters

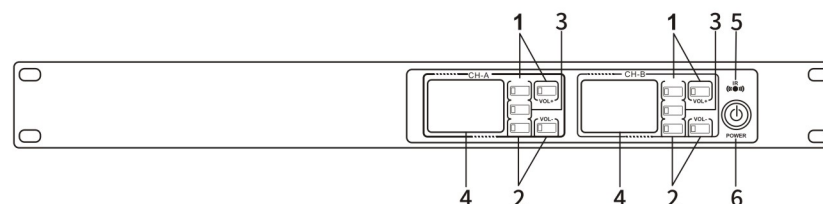
RF Carrier Frequency Range: 694.5–702.7MHz, 748.3–757.7 MHz
Frequency stability: 0.005%;
Optimum range: ≥ 150 meters;
Audio companding: DSP digital audio companding;
Audio sampling rate: 48KHz
Frequency response: 50Hz~18000Hz ± 3 dB;
Dynamic range: 92 dB;
S/N ratio (A weighting): 105 dB;
T.H.D: $\leq 0.8\%$, @1KHz;
Operating temperature range: -10°C~+50°C,

Transmitter technical parameter:

Carrier bandwidth: 694.5–702.7MHz, 748.3–757.7 MHz
Oscillation :PLL frequency synthesis;
Transmit power: 13.5dBm;
Carrier error: 0.005%;
Harmonic radiation: -32dBm;
Modulation method: FSK;
Nominal/maximum frequency deviation: + 65KHz;
Maximum input level: 250mV;
Input impedance: 2.2K Ω ;
Frequency setting: manual button setting or IR frequency ;
Power supply: AA 1.5Vx 2;
Working current: AA battery power supply: 120mA;
Battery life: ≥ 10 hours;

Front panels

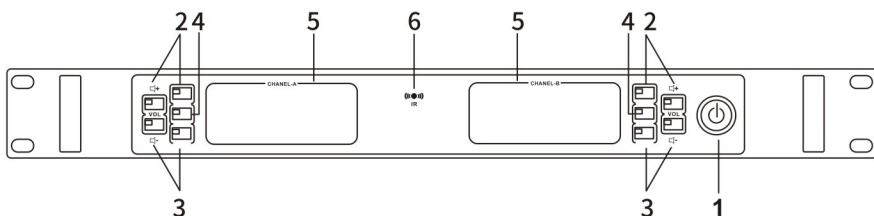
Two-channel host



- 1: Volume +/UP: Press the button to adjust the volume "+" /Frequency of the current channel, and the volume value will be automatically saved after letting go;
- 2: Volume-/DOWN: Press the button to adjust the volume "-" /Frequency of the current channel, the volume value will be automatically saved after letting go;
- 3: SET key: enter the menu or confirm the menu;
- 4: LCD display: display the current status of the device;
- 5: IR window: infrared frequency window;
- 6: Power button: Press the button 3S to turn on/off, the battery indicator will be on when the device is turned on normally, otherwise it will be off;

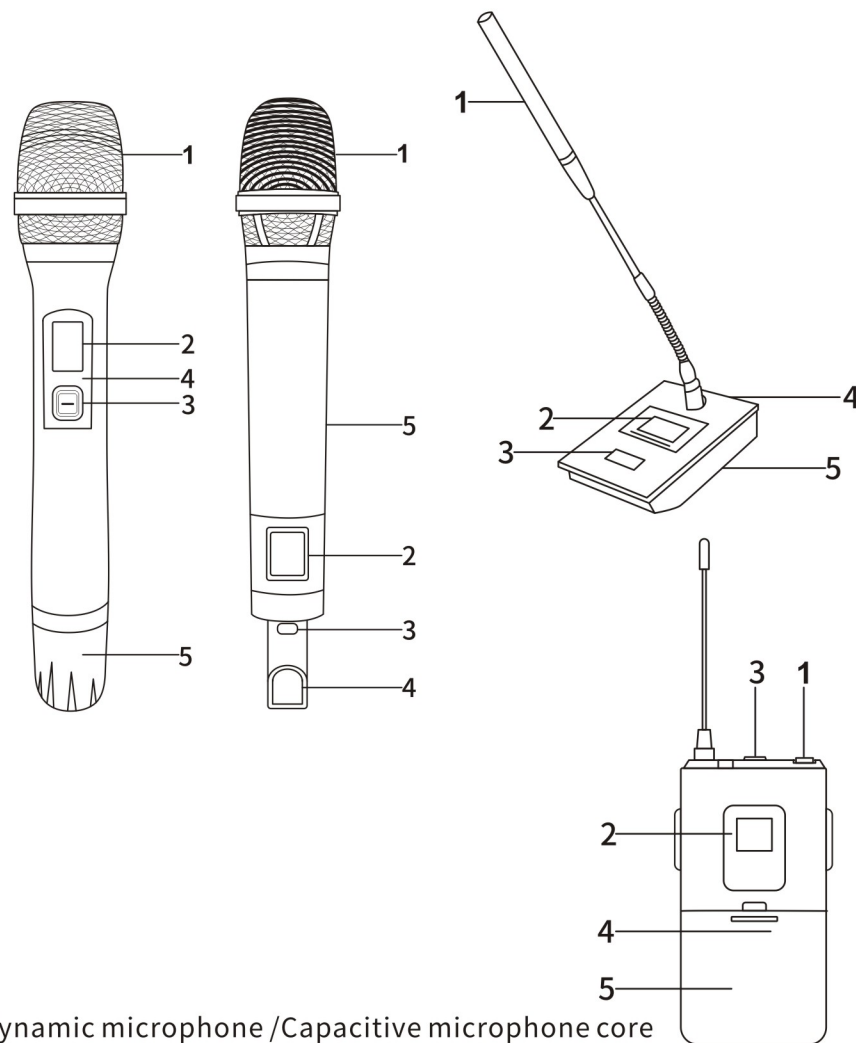
Front panels

Two-channel host



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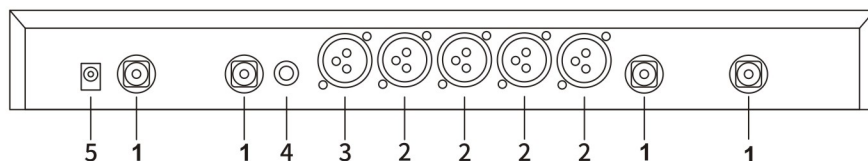
Transmitter



1. Dynamic microphone /Capacitive microphone core
2. Display: display the status of the device.
3. Power switch: Press the button 3S to turn on or off the power.
4. IR Infrared window: upload automatically the receiver frequency to the transmitter.
5. Battery cover: screw to open the battery cover.

Rear panels

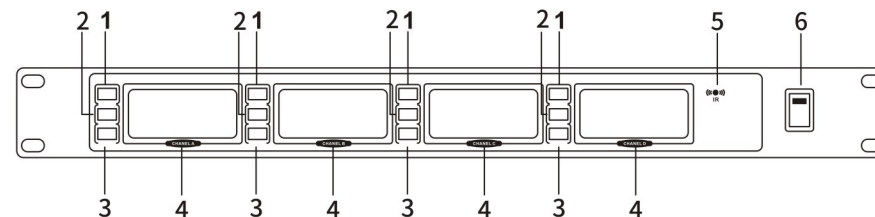
Four-channel host



- 1: BNC interface: antenna input interface;
- 2: Balanced output: independent channel balanced output, which can be connected to the balanced input of the next level of equipment;
- 3: Unbalanced output: four-channel mixed output;
- 4: Unbalanced output: four-channel mixed output;
- 5: DC power input: connect the power adapter, the input power is DC 12V_1A;

Front panels

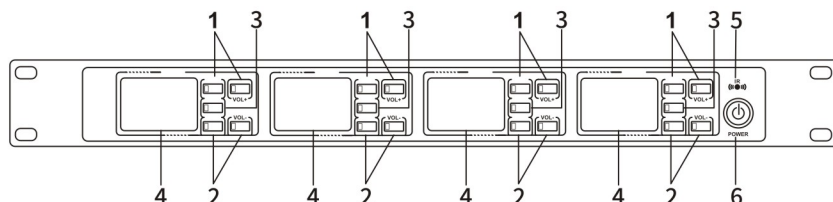
Two-channel host



- 1: Volume +/UP: Press the button to adjust the volume “+”/Frequency of the current channel, and the volume value will be automatically saved after letting go;
- 2: SET key: enter the menu or confirm the menu;
- 3: Volume-/DOWN: Press the button to adjust the volume “_”/Frequency of the current channel, the volume value will be automatically saved after letting go;
- 4: LCD display: display the current status of the device;
- 5: IR window: infrared frequency window;
- 6: Power button: Press the button 3S to turn on/off, the battery indicator will be on when the device is turned on normally, otherwise it will be off;

Front panels

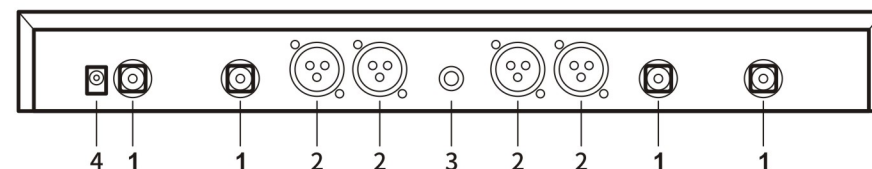
Two-channel host



- 1: Volume +/UP: Press the button to adjust the volume “+”/Frequency of the current channel, and the volume value will be automatically saved after letting go;
- 2: Volume-/DOWN: Press the button to adjust the volume “-” /Frequency of the current channel, the volume value will be automatically saved after letting go;
- 3: SET key: enter the menu or confirm the menu;
- 4: LCD display: display the current status of the device;
- 5: IR window: infrared frequency window;
- 6: Power button: Press the button 3S to turn on/off, the battery indicator will be on when the device is turned on normally, otherwise it will be off;

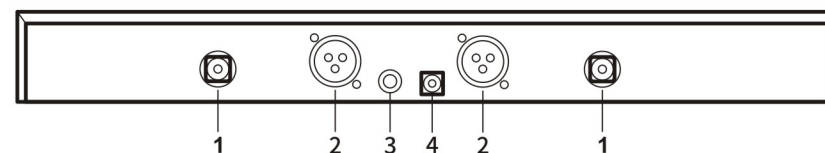
Rear panels

Two-channel host



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Two-channel host



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