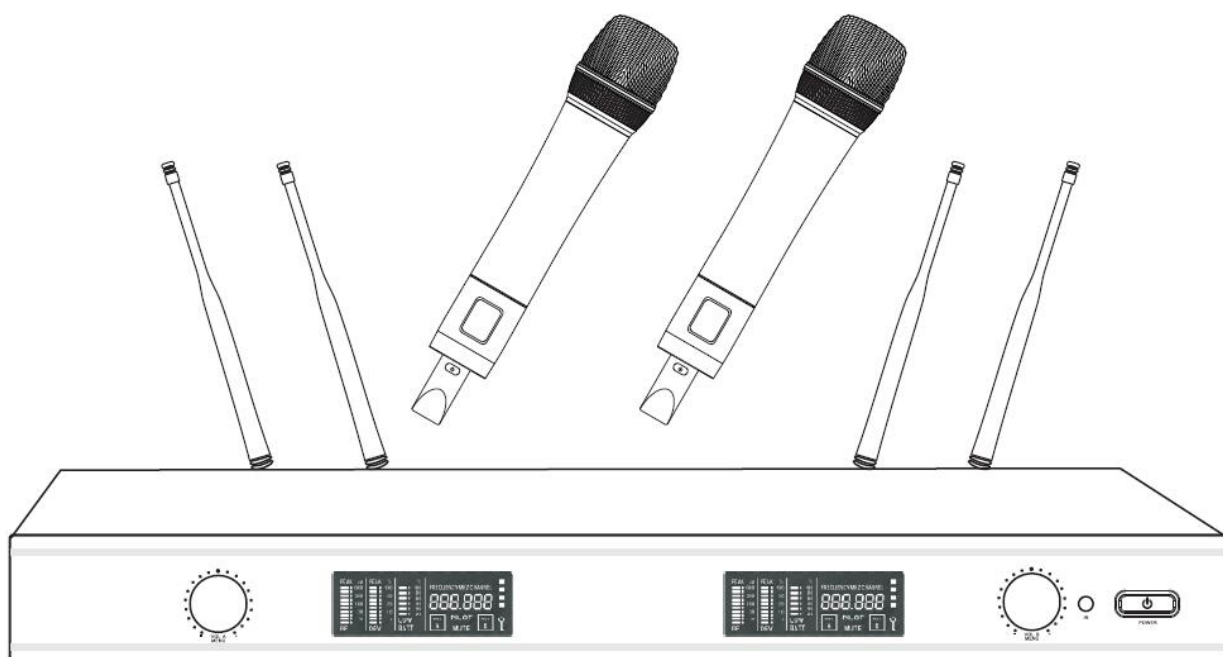




**PROFESSIONAL WIRELESS MICROPHONE
SYSTEM MANUAL
KRM-D2UVM**



UHF 200 CHANNEL
WIRELESS MICROPHONE

Thank you for selecting this wireless microphone system!

The newly system uses the latest PLL SYNTHESIZED and IR TECHNOLOGY, they have excellent and skilled in manufacture technique of wireless, dependable performance, easy set up and handle. Moreover, they have high fineness AF definition. Whether you are the singer, guitar or exponential, it will be your best choice.

Warning

Please prevent the equipment dripping by water; do not put the liquid articles such as vase on the equipment. This machine has no maintain part, for preventing electric shock from being dangerous, do not turn on the machine cover without permission. If need to maintain, please contact sale agent.

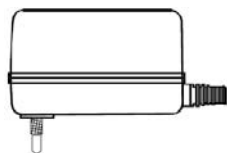
1. Read the operating instructions-You must read all the safety and operating instructions carefully before use the equipment.
2. Reserved the operating instructions-Please reserved all the safety and operating instructions, ready for the future checking.
3. Warning - Please note all the warning of the applications of this machine during operation.
4. Follow the instructions - Please follow the instructions of the machine and all operations.
5. Additional devices-Only allow the additional devices which recommended by the manufacture, in order to avoid accident.
6. Rainy and humidity-Keep away from the water
7. Ventilation- Use and storage of the machine needs good ventilation environment, each equipment space at least more than 5 cm.
8. Heat-Please keep away from the heat, including: heater, radiator, stove and so on.
9. Power—Please use the standard power volts marked in the machine.
10. Equipment should not place naked flame sources, such as lighted candles.
11. Do not throw waste batteries, please put it into the designated recycling bins.
12. Don't put all the liquid or heavy objects; prevent water droplets or water splash on the equipment.
13. Equipment can be used in tropical or temperate zone

System include following parts:

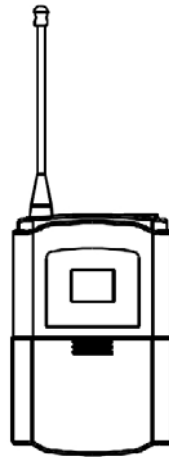
- Receiver
- 2 AA batteries (4 in combo systems)
- Power supply
- 4 antenna
- User guide
- 2 handheld microphone transmitters/ Body-pack transmitter+Lavaliere/Head Mic



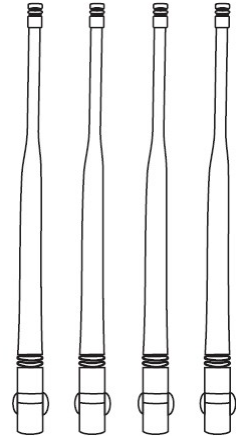
Handheld microphone transmitter



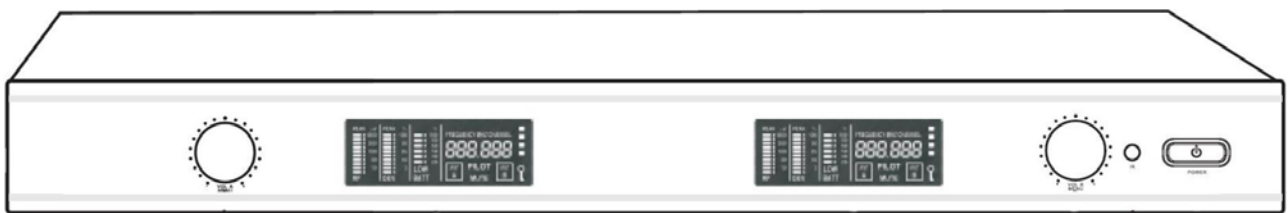
Power Supply unit



Body-pack transmitter

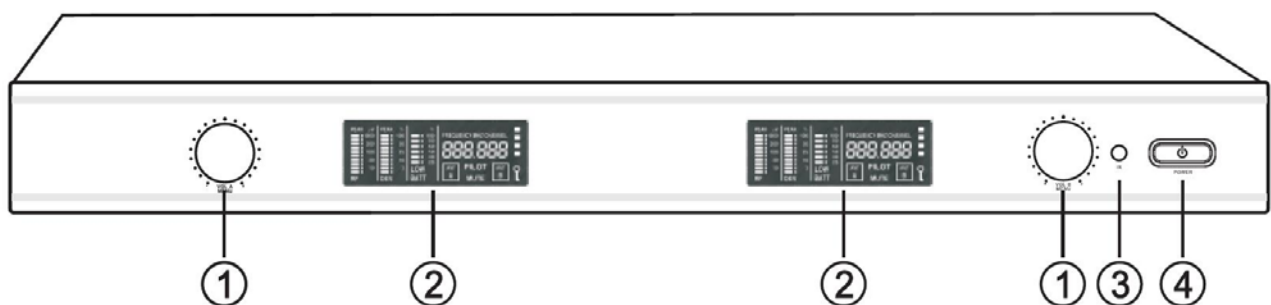


Antenna



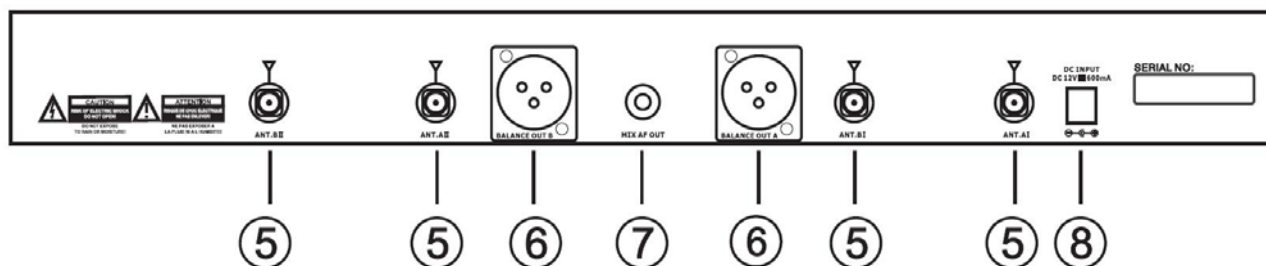
Receiver

Front View of Receiver



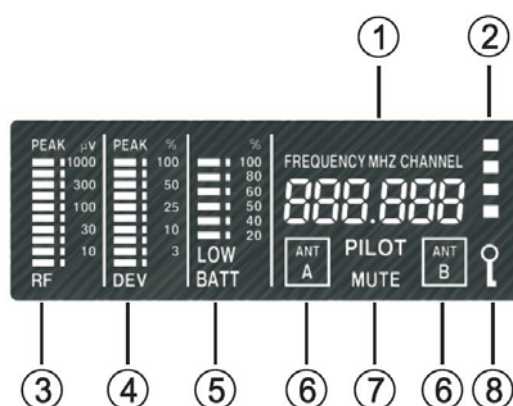
1. Volume adjust Knob and Menu key (When hold and press the volume knob, receiver also can enter the menu setting interface)
2. LCD panel: display system information such as RF/AF level, mic status, frequency and channel, etc.
3. Infrared Sensor: Broadcasts IR signal to transmitter to synchronize frequencies
4. On/Off switch: Tap to turn on , hold to turn off

Rear View of Receiver



5. Antenna Jack
6. Balance output jack
7. Mixing output jack
8. Power Jack: Connect to DC12V 600mA power adapter

Receiver LCD Display



1. Frequency display: To display current frequency
2. Menu hierarchical
3. RF display: To display current receiving RF level
4. AF level: To display current transmitting AF level
5. Battery: To display battery current capacity
6. Antenna: To display received signal from transmitter
7. Mute: LCD will display mute if there is no signal
8. Lock symbol

Operation of Receiver Unit

1. Volume adjust

When use the volume knob, you can increase or decrease the volume level (0-31)

2. IR sync

When hold and press the menu knob, receiver also can enter the menu setting interface, press this key one time to enter IR sync interface, turn on transmitter microphone, and then use the microphone IR sensor aim at the receiver's IR port, receiver will save the setting and exit automatically if the IR sync succeed, and RF indicator will display, MUTE symbol will disappear, transmitter microphone will switch the channel and frequency same as receiver. If the IR sync successful, system will exit this status in 5 seconds.

3. Auto-scanning

Hold and press menu knob 2 seconds when system enter menu, receiver will start auto-scanning, system will start scanning automatically and select the best frequency to

save it in 10 seconds, system will exit this function if user press menu knob one time during the auto-scanning

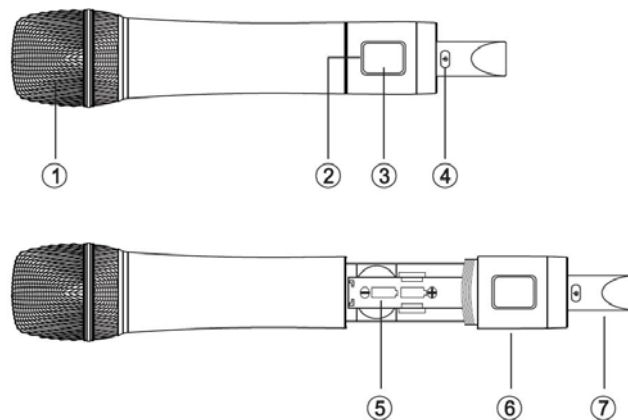
4. Menu setting

Hold and press menu knob 3 seconds when system enter menu, LCD will display menu setting interface

- A. Frequency will flash, user can change the frequency with the menu knob, frequency band is 250kHz, total 100 channel
- B. Press menu key one time when frequency is flashing to enter SQL setting, user can off the SQL and adjust SQL (-75 to -95) with the menu knob
- C. Press menu key two times when frequency is flashing to enter PIL setting, user can on/off the PILOT function with the menu knob

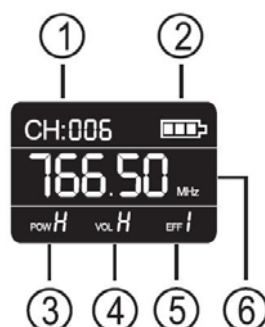
Note: Receiver will exit the setting if there is no operation after LCD digit flashing within 10 seconds or user hold and press the menu knob.

Function of Handheld Microphone Transmitter



- 1. Interchangeable microphone head
- 2. Infrared sensor
- 3. LCD screen to display frequency, channel and battery capacity
- 4. Power switch: Press and hold to turn on or off.
- 5. Microphone body: battery, circuit inside. Battery case: Use two AA chargeable batteries. If you don't use it for a long time, please take it off.
- 6. Handheld part of the microphone, user can open the mic to change the battery if rotate it.
- 7. Built-in antenna

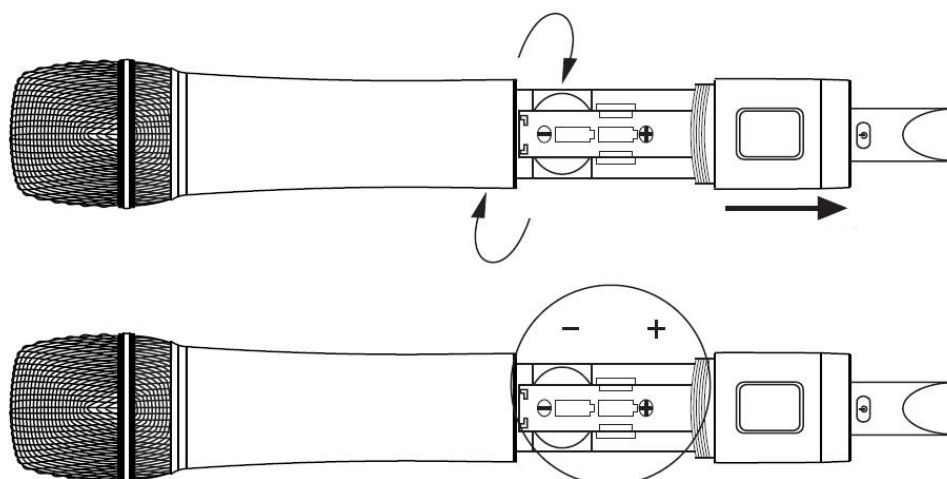
Transmitter Microphone LCD Display



1. Channel display
2. Battery capacity
3. PWR to display transmitter RF consumption.
4. VOL to display microphone AF gain
5. EFF to display microphone audio effects
6. Display microphone current frequency

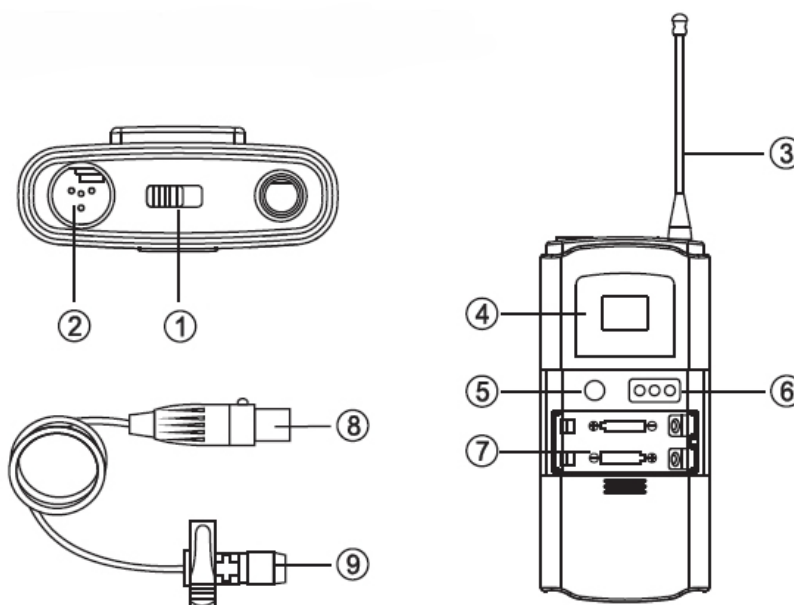
Battery Install

Please install the battery as following pic:



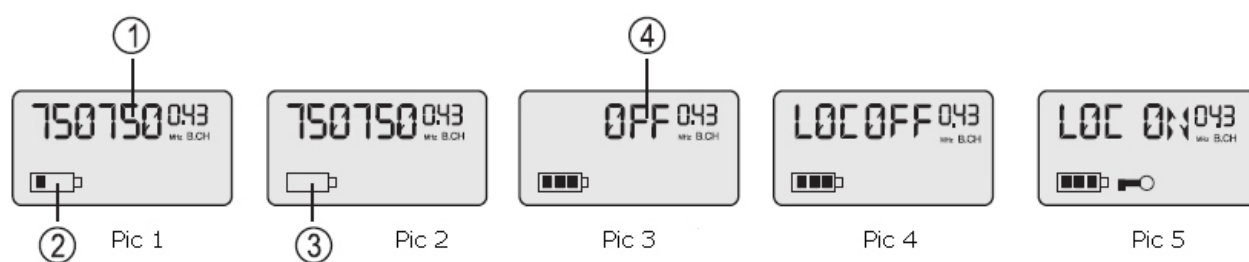
1. Hold on the upper part of the handheld, open the metal shell, disclosing the battery case.
2. Put two AA 1.5V batteries into the case, but please make sure the battery polar is correct
Note: Please don't make the battery polar wrong, it would be damaged electronic component inside the transmitter.
3. Cover the metal shell after batteries are settled.

Function of Body-pack transmitter



1. Power On/Off switch
2. Lavalier Mic input jack
3. Antenna
4. LCD display
5. Infrared sensor
6. Lavalier Mic transmitter function key (the usage is same as the handheld Mic transmitter function key)
7. Battery case
8. Lavalier Mic connector
9. Condenser microphone cartridge

Body-pack transmitter LCD Display



1. Channel display
2. Battery capacity
3. Please change the new battery if the battery capacity displayed as pic 2.
4. Microphone off
5. Pic 4: Transmitter microphone channel unlock,
6. Pic 5: Transmitter microphone channel lock on.

Operation of Lavalier Mic transmitter

1. Channel adjustment
Press "SET" key one time, when LCD top right corner display digit "X.XX" will flash, user can use "UP" & "DOWN" key to select the channel, frequency will change automatically, frequency band is 250kHz, total 100 channel, user can save the setting with "SET" key press.
2. Frequency band adjustment (For example current is low band)
Press "SET" key two times, "BAN LO" will flash, user can use "UP" & "DOWN" key to select the frequency band, and then press "SET" key to save the setting when LCD "BAN HI" flashing.
3. RF PWR adjustment (For example current RF is in high status)
Press "SET" key four times, "RF HI" will flash, user can use "UP" & "DOWN" key to select the RF PWR. LCD will display "RF LO" if user select low power, and then press "SET" key to save the setting.
4. Sensitivity adjustment
Press "SET" key four times, LCD will display "VOL -30" or "VOL 0", the digits will flash, user can use "UP" & "DOWN" key to select the sensitivity (-30, -20, -10, 0, 0 is the highest), and then press "SET" key to save the setting.

5. IR sync

Press "Down" key on receiver, and then use the transmitter IR sensor aim at the receiver's IR port to transmit the parameter to receive, receiver will save the setting and exit automatically if the IR sync succeed

6. Lock & Unlock

Hold on to press 'SET" key, and press "UP" key, LCD will display "LOC ON", this indicate transmitter's function key was locked.

Hold on to press 'SET" key, and press "DOWN" key, LCD will display "LOC OFF", this indicate transmitter has release the lock status.

System Operation:

1. Connect the sound system

2. Turn volume of receiver and amplifier (KARAOKE system) to the lowest point.

3. Turn on sound system's power step by step.

4. Turn on transmitter microphone

5. Adjust receiver's volume to the middle. Open microphone's power, and then adjust the volume of amplifier slowly, make sure the microphone achieve the best effect. You can go around using place when testing. If there is no hum when you going around, it means you got perfect sound effect.

6. If there are problems with receiver system, please see the "Troubleshooting". If you still cannot find the solution, please contact professionals or local agency.

7. After using, turn off transmitter's power first, and then turn of sound system step by step.

Note:

1. Since the installation of antenna influences the operating efficiency of the receiver. The most important rule is to minimized the distance between receiving antenna and microphone as short as possible for better reception and performance

2. To avoid RF signal influence, always keep the receiver away from computer or other potential sources of interference.

3. Avoid installing the receiver at the lowest floor of equipment cabinet

4. This wireless system can support up to 200 microphones at the same time, no disturb, but it has to be adjusted by professional before using.

Trouble Shooting

Problem/Status	Solution
No sound (Status: Receiver no RF signal)	<ul style="list-style-type: none"> ➤ Make sure transmitter and receiver's power switch "ON" position ➤ Check the battery polar ➤ Check the antenna of the receiver ➤ Make sure there are no obstruct between antenna and transmitter
No sound (Status: RF & AF signal active)	<ul style="list-style-type: none"> ➤ Check receiver volume knob ➤ Check the connection of receiver, amplifier and mixer. ➤ Check the volume knob of amplifier and mixer
No sound (Status: RF signal active, no AF signal)	<ul style="list-style-type: none"> ➤ Check transmitter 's power ➤ Exchange the microphone if necessary
Distortion or unwanted noise bursts	<ul style="list-style-type: none"> ➤ Remove RF interference (CD players, computers, in-ear monitor system, ect.) ➤ Change receiver and transmitter to a different frequency ➤ Reduce transmitter gain ➤ Replace transmitter battery ➤ If use multiple systems, increase the frequency band between systems
Sound level different from cabled guitar or microphone, or when using different guitars	<ul style="list-style-type: none"> ➤ Adjust transmitter gain and receiver volume as necessary
Can not turn on/off transmitter	<ul style="list-style-type: none"> ➤ Replace the battery

Technique Specifications

1. System Parameter:

Working frequency: 740.000MHz-790.000MHz

Modulation: Broad Band FM

Frequency channel: 200

Switching bandwidth: 250 kHz

Frequency stability: $\pm 0.005\%$

Dynamic range: 100dB

Max deviation: $\pm 45\text{KHz}$

Audio frequency response: 50Hz-18KHz ($\pm 3\text{dB}$)

Signal noise ratio: $> 105\text{dB}$

THD: $\leq 0.5\%$

Operation range: About 100 m

Operation temperature range: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$

2. Receiver Parameter

Receiving mode: DPPL

Medium frequency: 110MHz, 10.7MHz

Antenna connection: BNC/ 50Ω

Sensitivity: 12dBuV (80dB S/N)

Sensitivity adjustment range: 12-32dBuV

Noise Rejection: $\geq 75\text{dB}$

Max output level: +10dBV

3. Transmitter Parameter

Antenna: Built-in

RF Output: $< 10\text{mW}$

Noise Rejection: -60dB

Power: 2pcs AA batteries

Battery Life: 10 hours in normal power, 12 hours in low power