

REALMIC

# REALMIC

Professional Wireless Video Recording  
Microphone Series

MC9F



Zhizhen Audio Tech (Dongguan) Co., Ltd.

MADE IN CHINA

\*Please read this instruction carefully before using the product and keep it properly

## VII. Precautions

1. This product is a precise electronic device, which should avoid watering or heavy fall; if it gets wet, please dry it in time, and hand it up to professional technician for further checking.
  2. When not using for a long time, the built-in rechargeable Li-battery should be fully charged every three months to maintain the high performance of the battery.
  3. The receiver is with built-in data IC, and it is normal for a certain temperature rise during operation.
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## Preamble

Thank you for choosing our Wireless Recording Microphones.  
This device adopts UHF wireless digital encryption technology for stable performance, featuring a new generation of wireless digital audio technology makes it easy to configure and use. It can be widely used in interviews, short video recordings, program hosting, live streaming, teaching and training, and other wireless applications.

### This product line includes the following models:

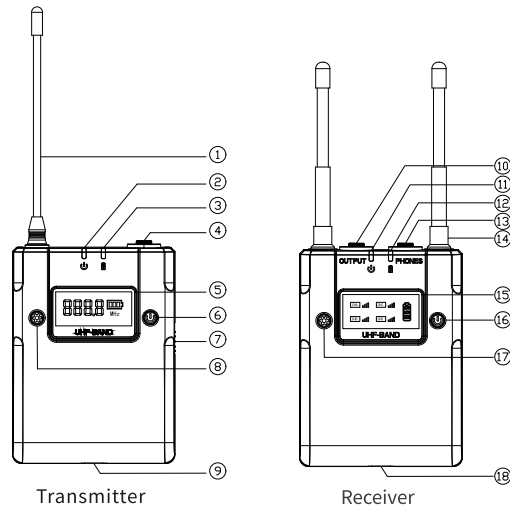
#### MC9F:

Equipped with 4pcs transmitters and 1pc quad channel receiver. Four transmitters can be used simultaneously



## Instructions

### I . The operating controls



#### Transmitter:

- ① 1/4 wavelength antenna
- ② On/off indicator: lights blue when it is on
- ③ Charging indicator: lights in red while charging, lights in blue after fully charged
- ④ MIC IN socket

## Instructions

Short operating distance	If it gets interference, please change the transmit to a different channel
	If the two or more transmitters are placed too close, it will shorten the operating range. Please make sure they are placed with distance of at least 0.5m.
	If one transmitter is too close to the receiver, which will affect the operating distance of the rest far ones
Short battery life	Exceeding the specified operating temperature will affect the Li battery performance
	The battery performance will decrease after more than 500 charging cycles. Please replace with fresh batteries.
Wind noise	Check whether the microphone windscreen is put on
	Do not use the microphone in the windward position or in front of the fan
Cell phone interference noise	While recording by cell phone, please set the phone at flight mode to avoid interference noise
Other noise	When the transmitter or receiver is under charging, it may be affected by electric signal and generate noise.
	Noise generated by interference from other radio equipment, please change the transmit to a different channel
	Interfered by high-powered electrical equipment, such as induction cooktops, microwave ovens, distribution boxes, etc., please keep away from these equipment
	When using it near a computer or 220 V cable, it may be affected by internet and electric signal and generate noise. Please keep away from these facilities.

## VI. Troubleshooting

No signal connection between receiver and transmitter, or connection failed	The distance is beyond the operating range, please shorten the operating range; Outdoor effective operating range is 50 meters, in case of shelter or indoor use, the distance will be reduced accordingly
	If it gets interference, please change the transmitter to a different channel
	Re-matching ID: For details please refer to section 3 and chapter 5 of this manual
Audio signal is distorted when speak loudly	As the lavalier microphone is with high-sensitivity capsule, please adjust the distance between the microphone and the sound source
	Lower the volume of transmitter to reduce the distortion
No sound / small sound	Connect headphones to monitor and first determine the possible range of the fault, and then check the following possible situations:
	1. Check if the transmitter microphone plug is fully inserted into the socket and locked
	2. Check if the audio cable is properly connected and fully inserted into the socket
	3. Check on the microphone volume and permission settings of the recording device
Short operating distance	4. Check if the transmitter is set at minimum volume, adjust the volume to solve the problem
	The distance can be affected by the buildings that blocks the transmitter and receiver
	The antenna of transmitter and receiver should not be covered by objects, in order to facilitate signal transmission.
	In a crowded environment, the human body will attenuate the radio waves, please make sure the transmitter and receiver are not blocked

- ⑤ Information display: indicates channel frequencies and battery status
- ⑥ Power switch: press and hold for 1 second to turn on or off; short press to enter the volume interface and adjust the volume by the setting button
- ⑦ Ambient noise reduction switch: set at "LCF" position to turn on the noise reduction function
- ⑧ Setting button: press to adjust channel when standby; short press the power switch to enter the volume interface, then press the setting button can adjust volume accordingly
- ⑨ Charging input socket: DC-5V, 1A-2A

### Receiver:

- ⑩ Audio output socket: for connecting the receiver to recording device by using the audio cable
- ⑪ On/off indicator: lights blue when it is on
- ⑫ Charging indicator: lights in red while charging, lights in blue after fully charged
- ⑬ Headphone output: can connect headphones for real-time monitoring
- ⑭ Receiving antenna
- ⑮ Information display: indicates wireless signal of each channel and battery status
- ⑯ Power switch: press and hold for 1 second to turn on or off
- ⑰ Setting button: for presetting only, no need to be operated by users
- ⑱ Charging input socket: DC-5V, 1A-2A

## Instructions

### II. Features

- 1.UHF wireless digital audio technology for stable performance
- 2.With digital ID management function for automatic searching and intelligent connections
- 3.Equipped with headphone output socket for real-time monitoring
- 4.Transmitter with volume control for wide range of application
- 5.WNCR noise control technology provides low ground noise
- 6.Integrated a new generation of wireless digital audio processor delivers excellent audio quality
- 7.Built-in Li batteries for recyclable use

### III. Specifications

Frequency range: **487-533MHz**

Modulation: DQPSK

Frequency Response: 40 Hz - 18 kHz

Microphone type: Condenser, Omni

Channels: Preset 11 channels for each transmitter, automatically selected by ID matching

Transmit power:  $\leq 10$  mW

S/N ratio:  $\geq 90$  dB

Power supply: DC 3.7V (built-in Li-battery)

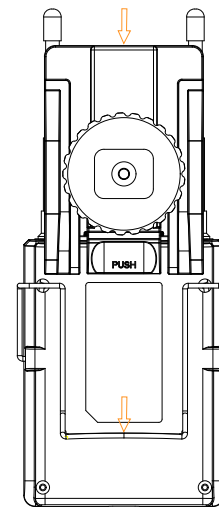
Recharging input: DC-5V/1-2A

Recharging period: 2 - 3 hrs (Transmitter); 3 - 5 hrs (Receiver)

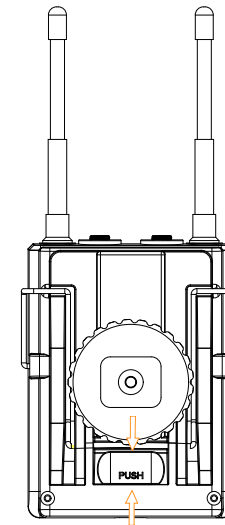
## Instructions

If there is channel unconnected, then repeat the above operation till all are successfully connected.

- ▷ Once the configuration is completed, turn on the devices and start to use. Make sure not to use the same frequencies, if it gets interference, please change the transmitter to a different channel.
8. To use on the camera, the receiver should be first mounted with a shoe mount connector to facilitate fixing on the camera. Press the metal buckle during installation and push the shoe mount connector in (as pic. 1 shown); when removing, press the PUSH button of the shoe mount connector and push out at the same time (as pic. 2 shown)

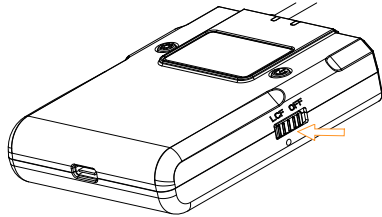


Pic 1



Pic 2

## Instructions



6. If it gets interference by other wireless signals while using, simply change the channel of the transmitter, the receiver will automatically track and connect.

7. Please follow below setup steps in order to use two sets simultaneously:

### Step 1:

Turn off the 1st set of the device (both transmitter and receiver)

### Step 2:

Press the power button and setting button of the transmitter (from the 2nd set) at the same time for 3 seconds, the display panel of the transmitter starts to flash (under ID matching mode), configurate the rest transmitters from the same set as above; then turn on the receiver (from the 2nd set), the signal bar of each channel on the display panel of receiver starts to flash (under ID matching mode), the receiver will automatically connect with the transmitter and reconfigure its ID code in 3 seconds. And then turn off the 2nd set (both transmitter and receiver).

### Step 3:

Turn on all the transmitters and receiver from the 2nd set, and check connecting status of each channel on the information display of the receiver.

## Instructions

Operating time: 7 - 9hrs

Reference operating range: 50 meters at outdoor open area

Operating temperature: 0 °C to 55 °C

Storage temperature: -20 °C to +55 °C

Dimensions: 84 \* 63 \* 20 mm

Net weight: approx 68 g (Transmitter); approx 123 g (Receiver)

## IV. Delivery includes

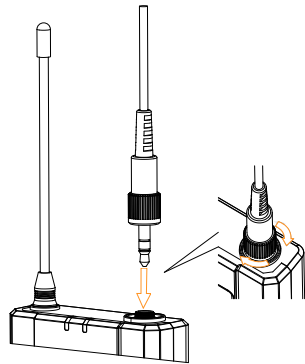
### MC9F:

Transmitter x4, quad channel receiver x1, audio cable x1, CN-20 conversion cable x1, lavalier microphone x4, shoe-mounted connector x1, recharging cable and user manual

## Instructions

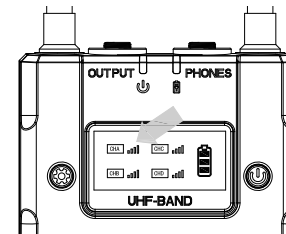
### V. Start using

1. Connect the microphone to the MIC socket of the transmitter, make sure it is fully plugged in and securely locked. As shown below:



## Instructions

2. Connect the OUT socket of the receiver with the MIC IN socket of the SLR camera or video camera by using the 3.5mm audio connection cable. If to connect the receiver with cell phone, please use the CN-20 conversion cable as well.
3. Turn on the transmitter and receiver, the receiver will connect with the transmitter immediately. The information display on the receiver will indicate the connecting status of each channel. As shown below:



- ▶ If the connection failed, press the power button and setting button of the transmitter (when it is power off) at the same time for 3 seconds, the display panel of the transmitter starts to flash (under ID matching mode); then turn on the receiver, the signal bar of each channel on the display panel of receiver starts to flash (under ID matching mode). And then restart both transmitter and receiver after 3 seconds.
4. Transmitter is with volume control function. Turn on the transmitter, short press the power switch to enter the volume interface, then press the channel button can adjust volume accordingly. The volume can be adjusted from U00---U10 with 11 levels in total, U10 is the maximum volume.
5. Turn on the "LCF" function of the transmitter as needed to significantly improve ambient low frequency and wind noise. As shown below:

## FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.