

专业无线影视录音麦克风系列 产品使用说明

Professional Wireless Video Recording Microphone Series
Product Instructions

WM-9/WM-9S/WM-D11/WM-10/WM-910HT

惠州市麦拉达电声科技有限公司



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使用产品前请仔细阅读本说明书，并请妥善保管

Short battery life	Please use LR6 alkaline batteries, as the use of R6P acidic batteries will shorten the operating time
Wind noise	As the microphone is subject to wind-borne noise, turn on the LOW CUT function of the transmitter to improve it
	Check whether the microphone windscreen is put on



前言

感谢您使用本公司出品的专业无线影视录音麦克风系统。此产品使用专业音频电路架构和无线RF技术设计，通过集成高通滤波器，音频混合器，音频压缩扩展器，实时返送监听等专业录音功能，可广泛应用于新闻采访、影视录音、节目主持、专题访谈、教学培训以及其他无线传声领域；产品工作在UHF无线电频段，信号稳定不易受干扰，严密的设计确保使用过程安全可靠的运行。

本产品系列包含以下型号

WM-10:

配置两台WM-10 T金属发射器和一台WM-10 R高性能双通道金属接收器，可两只发射器同时使用

WM-9:

配置一台WM-9 T发射器和一台WM-9 R高性能接收机，单只发射器使用

WM-9S:

配置两台WM-9 T发射器和一台WM-9 R高性能双通道接收机，可两只发射器同时使用

WM-D11:

配置一台WM-D11T金属发射器和一台WM-D11R高性能金属接收器，单只发射器使用

WM-910 HT:

手持式发射器，可适配WM-9/WM-10 接收机



WM-10 (金属版)



WM-9S



WM-9

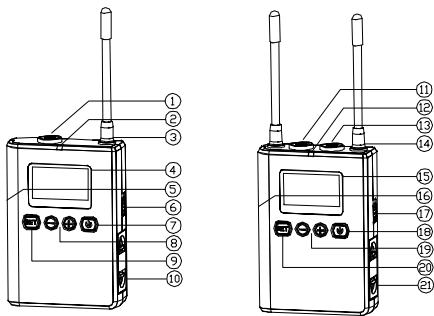


WM-D11 (金属版)



WM-910 HT (金属版)

一、产品各功能组件图



发射器各功能说明:

- ① 麦克风插座: 将麦克风插入该插座, 并锁紧固定
- ② 工作状态指示器: 低电量时亮红色; 麦克风静音时, 该灯闪烁提示
- ③ 1/4波长天线
- ④ 信息显示窗口
- ⑤ 外部DC-5V供电输入插座
- ⑥ 麦克风降噪开关: 启用后可降低环境低频噪声、过滤风吹噪声
- ⑦ 电源开关: 按住2秒开机/关机; 轻按一次启动静音/解除静音
- ⑧ 调节按钮: 配合SET键进行参数调整
- ⑨ SET按键: 对各项需要设定的功能进行选择
- ⑩ 抽取式电池仓

接收机各功能说明:

- ⑪ 录音输出插座: 使用音频连接线与录音设备连接
- ⑫ 工作状态指示器: 正常工作时亮绿色, 低电量时亮红色
- ⑬ 耳机输出插座: 可连接耳机实时监听

VI. Troubleshooting

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.
	Receiver output volume is too high, please set the OUT line output at "0-4" dB level
	The mic input level of the video camera is too high, please set the MIC volume of the video camera at manual mode, and set at level 1/3~1/2
No sound/ small sound	Check if the transmitter is muted. When it is muted, the transmitter display shows "MUTE" and press the power button to unmute
	Check if the transmitter microphone plug and receiver output plug are fully inserted into the socket and locked
	Check the volume settings, OUT line output should usually be set at "0-4" dB level
Short operating distance	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
	If it gets interference, please change the transmit and receiver to a different channel

PHONES headphone output volume adjustment:

Press the SET button to adjust the volume with the ⊕/⊖ button when the "PHONES" character on the display flashes. Press the SET button again to exit and save the setting, or automatically exit after 5 seconds and save the settings.

VII. Precautions 

1. This product is a precise electronic device, which should avoid watering or heavy fall; if it gets wet, please remove the battery immediately, and hand it up to professional technician for further checking.
2. When not using for a long time, remove the battery to prevent the damage caused by the leaking of the battery.
3. When using an external DC-5V DC power supply, take out the battery from the unit first.

The image shown here is indicative only. If there is inconsistency between the image and the actual product, the actual product shall govern.

VIII. Troubleshooting 

No signal on the receiver/noise	Check whether the transmitter channel is consistent with the receiver
	If it gets interference, please change the transmitter and receiver to a different channel
	The distance is beyond the operating range, please shorten the operating range; Outdoor effective operating range is 100 meters, in case of shelter or indoor use, the distance will be reduced accordingly

- ⑭ 高性能接收天线, 可90度折叠使用
- ⑮ 信息显示窗口
- ⑯ 外部DC-5V供电输入插座
- ⑰ 输出模式选择: ST为双通道独立输出, MIX为双通道混合输出
- ⑱ 电源开关: 按住2秒开机或关机
- ⑲ 调节按键: 配合SET键进行参数调整
- ⑳ SET按键: 对各项需要设定的功能进行选择
- ㉑ 抽取式电池仓

二、主要特性 

- ▶ 双通道UHF无线接收技术, 可同时连接两台发射器工作
- ▶ 采用二次变频DSP接收处理器, 抗镜像干扰能力强
- ▶ 专业级电路结构, 具备LOW-CUT低切功能
- ▶ 提供双通道独立输出或MIX混合输出可供选择
- ▶ 具备实时返送监听接口, 可连接耳机监听录音效果
- ▶ 监听和录音输出的音量可独立调节, 并具有记忆功能
- ▶ 采用WNCR声学环境降噪技术, 可抑制环境噪声和风噪声
- ▶ 集成高性能音频压缩扩展器, 提供更宽广的音频动态响应
- ▶ 提供多达100个无线频率, 可设置多组信道同时工作
- ▶ 支持外置式电源供电, 适应各种场合使用

三、技术参数 

无线频率范围: 538-594 MHz

调制方式: F3E

音频频率响应: 30 Hz - 18kHz

麦克风规格: 电容式全指向

WM10/WM9S: 100个信道

WM9/WMD11: 50个信道

频率控制：PLL合成器

无线发射功率：≤10mW

信噪比：>90dB

电源：DC3V (2节5号电池)

电池使用时间：≥10小时

参考使用距离：100米（室外开阔地时）

工作温度：0℃至55℃

存储温度：-20℃至+55℃

产品规格：89×63×22mm

单体重量：120 g

四、使用范围

▶ 新闻采访、影视录音、节目主持、专题访谈、教学培训以及其他无线传声领域

五、产品配置

WM-10:

发射器x2, 双通道接收机x1, 接收天线X2, 音频连接线x1, 3.5MM转XLR转换线x1, 领夹式麦克风x2, 接收机靴型固定组件x1, 金属扣x3, 使用说明书x1。

WM-D11:

发射器x1, 接收机x1, 接收天线X2, 音频连接线x1, 3.5MM转XLR转换线x1, 领夹式麦克风x1, 接收机靴型固定组件x1, 金属扣x2, 使用说明书x1。

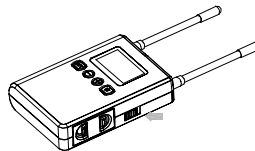
WM-9:

发射器x1, 接收机x1, 接收天线X2, 音频连接线x1, 3.5MM转XLR转换线x1, 领夹式麦克风x1, 接收机靴型固定组件x1, 金属扣x2, 使用说明书x1。

WM-9S:

发射器x2, 双通道接收机x1, 接收天线X2, 音频连接线x1, 3.5MM转XLR转换线x1, 领夹式麦克风x2, 接收机靴型固定组件x1, 金属扣x3, 使用说明书x1。

- The receiver can be either dual independent output (ST) or mixed output (MIX) - optional. Using independent output, the audio track can be processed later on.



- Adjust the volume control of the receiver to achieve the appropriate sound effect. OUT recording output and PHONES headphone output are independent volume adjustment. In the standby interface, the display only shows the volume level of PHONES; the adjustment method is as below:

OUT recording output volume adjustment:

Press the SET button to adjust the volume with the ⊕/⊖ button when the "OUT LEVEL" character on the display flashes. Press the SET button again to exit and save the setting, or automatically exit after 5 seconds and save the settings; usually the default volume is set at 0-4dB level.

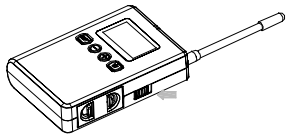
Channel adjustment method:

Press the SET button, when the "CH / A or CH / B" on the display flashes (CH - ** on the display of the receiver flashes), adjust the channel by pressing ⊕/⊖. Press SET again to exit and save the setting, or exit automatically after 5 seconds and save the setting. For example: channel A transmitter is set as CHA09, channel B transmitter is set as CHB09, the receiver channel is set as CH-09; As shown below:



▶ If you are using WM-9, then just do the setting for one transmitter only.

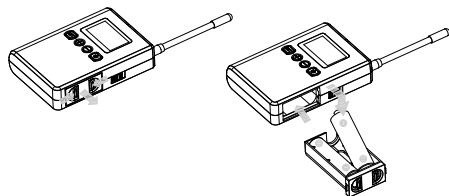
7. Turn on the "LOW CUT" function of the transmitter as needed to significantly improve ambient low frequency and wind noise.



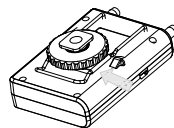
六、开始使用



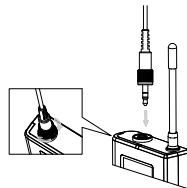
1、安装电池：同时压缩电池仓锁定片可取出电池仓，注意电池极性不能装反，如下图所示



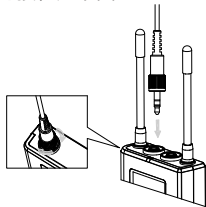
2、将靴型固定组件安装在接收机金属扣上（向内压缩金属扣以便于安装），如下图所示



3、将麦克风插头插入发射器的“MIC”插座，注意插入到位，并锁紧固定，如下图所示



- 4、使用音频连接线，将接收机的“OUT”插座和摄像机的“MIC IN”插座、或其他设备的音频输入插座连接，如下图



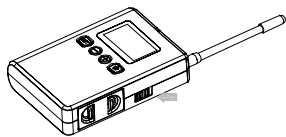
- 5、打开发射器和接收机的电源。
- 6、使用功能设置按键，将发射器和接收机的信道编号设置为一致。信道编号调整方法：按SET设置键，当显示屏的“CH/A或CH/B”字符闪烁时(接收机为CH-**)闪烁，可通过按键调节信道编号，调节完成后，再次按SET键可退出并保存设置，或者5秒后自动退出并保存设置。

例如：A通道发射器信道设置为CHA09，B通道发射器信道设置为CHB09，接收器信道设置为CH-09；示意图如下

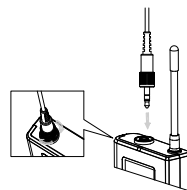


▶ 如您使用的是单通道型号WM-9，仅需设置单一发射器的信道即可。

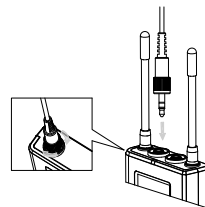
- 7、可根据需要启用发射器的低切降噪“LOW CUT”功能，可显著改善环境低频噪声和风噪声。



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



4. Connect the OUT socket of the receiver with the MIC IN socket of the video camera or AUX IN socket of other device by using the audio connection cable. As shown below:



5. Turn on the transmitter and receiver
6. Set the transmitter and receiver to the same channel by using the function setting button

WM-D11:

Transmitter x1, receiver x1, receiving antenna x2, audio cable x1, 3.5mm to XLR conversion cable x1, lavalier microphone x1, shoe-mount connector of receiver x1, belt-pack clip x2, user manual x1.

WM-9:

Transmitter x1, receiver x1, receiving antenna x2, audio cable x1, 3.5mm to XLR conversion cable x1, lavalier microphone x1, belt-pack clip x2, shoe-mount connector of receiver x1, user manual x1.

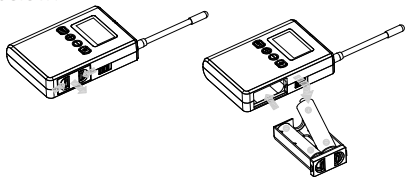
WM-9S:

Transmitter x2, dual channel receiver x1, receiving antenna x2, audio cable x1, 3.5mm to XLR conversion cable x1, lavalier microphone x2, shoe-mounted connector of receiver x1, belt-pack clip x3, user manual x1.

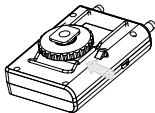
VI. Start using 

1. Install the battery: Press the locking parts to take out the battery compartment. Observe correct polarity when inserting the batteries.

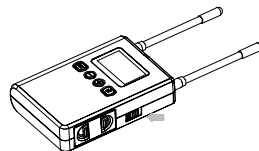
As shown below:



2. Mount the shoe-mounted connector on the belt-pack clip of the receiver (press the belt-pack clip inward for easy installation), as shown below:



8. 接收机可选择双通道独立输出(ST)或双通道混合输出 (MIX) ;使用独立输出可在后期进行音频分轨处理。



9. 通过调节接收机的音量输出级别, 获得满意的声音效果。OUT录音输出和 PHONES耳机监听输出为独立的音量调节, 在待机界面中, 显示屏仅显示 PHONES的音量等级; 调整方法如下

OUT录音输出音量调整:

按SET设置键, 当显示屏的“OUT LEVEL”字符闪烁时, 可通过按键调节音量大小, 调节完成后, 再次按SET键可退出并保存设置, 或者5秒后自动退出并保存设置; 通常该音量默认为0-4dB级别。

PHONES耳机监听音量调整:

按SET设置键, 当显示屏的“PHONES”字符闪烁时, 可通过按键调节音量大小, 调节完成后, 再次按SET键可退出并保存设置, 或者5秒后自动退出并保存设置。

七、注意事项 

1. 本产品为精密电子设备, 应避免雨淋或重摔; 如不慎进水, 请及时取出电池, 交由专业的技术人员处理。
2. 长时间不使用时, 应取出机内的电池, 以防电池漏液损坏本产品。
3. 使用外置DC-5V直流电源为本机供电时, 请拆卸出机内电池。

八、故障排除 

接收机无信号/有杂音	检查发射器的信道编码应与接收机一致
	可能受到干扰, 请更改发射和接收机的信道
大声讲话时声音失真	距离超出使用范围, 请缩短使用范围; 室外有效使用距离为100米, 如有遮挡或室内使用时, 距离会相应缩短
	领夹麦克风为高灵敏度拾音器, 请调整麦克风和音源之间的距离
	接收机输出音量太大, 请将OUT线路输出设置在“0-4”dB级别
无声/声音极小	单反相机或摄像机的麦克风输入LEVEL太大, 请将摄像机的麦克风音量设置在手动模式, LEVEL设置在1/3~1/2范围
	检查发射器是否在静音状态, 静音时发射器显示屏显示“MUTE”, 可按一下电源按键解除静音
	检查发射器的麦克风插头、接收器的输出插头是否完全插入插座内, 并锁紧
	检查音量参数的设置, OUT线路输出通常设置在“0-4”dB级别
无线使用距离短	发射器和接收机受建筑物遮挡会影响使用距离
	发射器和接收机的天线尽量不被物体笼罩, 以利于信号传送
	在人群众多的环境, 人体会衰减无线电波, 尽可能使发射和接收不被遮挡
可能受到干扰, 请更换发射和接收机的信道	
电池使用时间短	应使用LR6碱性电池, 如使用R6P酸性电池会缩短使用时间
风噪声大	麦克风受到风吹引起的噪音, 可启用发射器LOW CUT功能获得改善
	麦克风的防风罩是否已安装

本说明书中使用的图片仅用于描述产品操作使用, 实际外形请以产品实物为准。

版本: V1.2-2017-12

III. Specifications 

Frequency range: 538-594 MHz
 Modulation mode: F3E
 Frequency response: 30 Hz - 18 kHz
 Microphone type: Condenser, Omni
 Channels (WM-10/WM-9S): 100
 Channels (WM-9/WM-D11): 50
 Frequency control: PLL Synthesizer
 Transmit power: ≤ 10 mW
 S/N ratio: > 90 dB
 Power supply: DC 3V (2pcs AA size batteries)
 Operating time: ≥ 10 hours
 Operating range: 100 meters at outdoor open area
 Operating temperature: 0 °C to 55 °C
 Storage temperature: -20 °C to +55 °C
 Dimensions: 89×63×22 mm
 Net weight: 120 g

IV. Application 

Interviews, film shooting, program hosting, teaching, etc.

V. Delivery includes 

WM-10:
 Transmitter x2, dual channel receiver x1, receiving antenna x2, audio cable x1, 3.5mm to XLR conversion cable x1, lavalier microphone x2, shoe-mounted connector of receiver x1, belt-pack clip x3, user manual x1.

- ⑲ Adjust button: adjust parameter along with the SET button
- ⑳ SET button: Select the function to be set
- ㉑ Removable battery compartment

II . Features

1. Dual-channel UHF wireless receiving technology for using two transmitters simultaneously
2. Double-conversion DSP receiving processor for strong anti-mirror interference ability
3. Professional-level circuit structure provides LOW-CUT low cut function
4. Dual independent output and MIX output-optional
5. Equipped with headphone output socket for real-time monitoring
6. Both headphone and recording output volume can be adjusted independently, with memory function
7. WNCR noise control technology can suppress environmental noise and wind noise
8. Integrated high-performance audio compander provides wide dynamic range
9. Provides up to 100 wireless frequencies, to set up multiple channels working at the same time
10. Support external power supply, so as to adapt to various occasions
11. Rugged metal construction for excellent electrical characteristics and mechanical strength

Thank you for choosing our Professional Wireless Video Recording Microphone System.

Using a professional audio circuit and wireless RF technology design, featuring integrated high-pass filter, audio mixer, audio compander, real-time return monitoring and other professional recording capabilities, this product can be widely used in video recording, program hosting, special interviews, and other wireless applications. It operates in the UHF frequency band, and the signal stability is not subject to interference. Its precise design ensures the safe and reliable operation of the process.

This product line includes the following models:

WM-10:

Equipped with 2pcs WM-10 T transmitter (metal) and 1pc high-performance dual channel receiver (metal) WM-10 R, two transmitters can be used simultaneously.

WM-D11:

Equipped with 1pc WM-D11 T transmitter (metal) and 1pc high-performance receiver (metal) WM-10 R, single transmitter used only.

WM-9:

Equipped with 1pc WM-9 T transmitter and 1pc high-performance receiver WM-9 R, single transmitter used only.

WM-9S:

Equipped with 2pcs WM-9 T transmitter and 1pc high-performance dual channel receiver WM-9 R, two transmitters can be used simultaneously.

WM-910 HT:

Handheld transmitter, also suitable for WM-9/WM-10 receiver.



WM-10(Metal)



WM-9S



WM-9

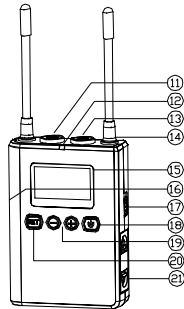
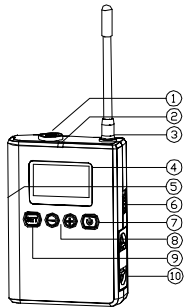


WM-D11(Metal)



WM-910 HT(Metal)

I . The operating controls 



Transmitter:

- ① Microphone socket: Insert the microphone into the socket and lock it firmly

- ② Working status indicator: Lights red when the battery is low; flashes when the microphone is muted
- ③ 1/4 wavelength antenna
- ④ Information display
- ⑤ External DC-5V power input socket
- ⑥ Microphone noise reduction switch: Enable to reduce environmental low-frequency noise and filter wind noise
- ⑦ Power switch: press and hold for 2 seconds to power on/off; press once to activate mute/unmute
- ⑧ Adjust button: Adjust ammeter along with the SET button
- ⑨ SET button: Select the function to be set
- ⑩ Removable battery compartment

Receiver:

- ⑪ Recording output: Connect to the recording device by using an audio cable
- ⑫ Working status indicator: lights green at normal work, lights red at low battery
- ⑬ Headphone output: connect headphones for real-time monitoring
- ⑭ High quality receiving antenna, can be folded 90 degrees
- ⑮ Information display
- ⑯ External DC-5V power input socket
- ⑰ Output mode selection: ST is dual-channel independent output; MIX is dual-channel mixed output
- ⑱ Power switch: Press 2 seconds to turn on or off