



关注更多产品  
请扫二维码关注我们官网

More Products  
Please Scan QR Code to  
Follow us official website



使用微信“扫一扫”  
关注我们微信公众号

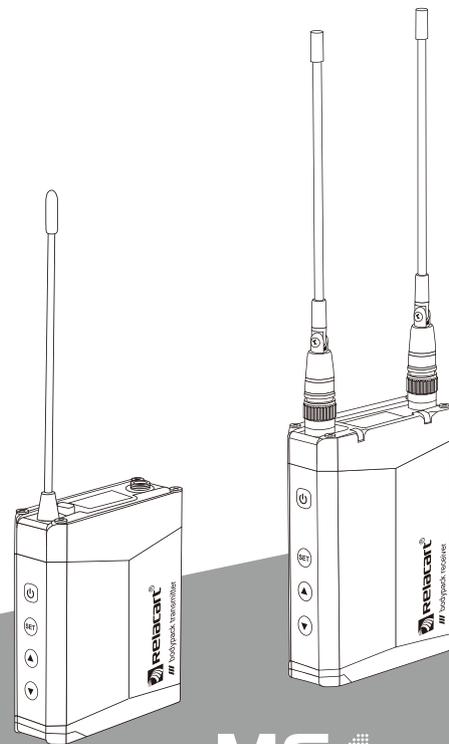
Use WeChat Scan  
QR Code to Follow us on WeChat

100% recycled paper  
100% papier recyclé



**Relacart® 力卡**

— Real Sound Always



**MS**

UHF Wireless Microphone System

UHF 無線麥克風系統

## Introduction

Thank you for choosing Relacart.

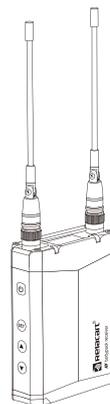
The Relacart MS1 is a versatile, lightweight, yet rugged UHF wireless microphone system, which can be compatible with smart phones (3.5mm interface), digital/SLR cameras, camcorders, recorders, tablets and other devices to help pick up high fidelity audio. This model is suitable for interview, microfilm recording or commercial demonstration and other applications.

The portable receiver features a one-touch frequency scan and infrared sync that allows you to effortlessly find a clear channel for your devices. This true-diversity receiver uses dual antennas and reception circuits that eliminate audio dropouts and RF interference. To further protect audio from unwanted interference, MS1 system includes 3-level squelch and pilot tone. The transmitter supports mic input, enabling the wireless system to provide clean, accurate and pristine audio. The receiver is equipped with earphone monitoring function; AFS automatically scans the clean frequency, the current application connection scan function, etc. The effective working distance can reach 50m (open and wide occasions).

## Characteristic

- UHF wireless transmission, providing high fidelity sound source.
- Widely compatible with smart phones, digital SLR cameras, portable cameras, tape recorders, tablets, etc.
- 10 switchable frequencies to realize the operation without environmental interference.
- The working distance is up to 50m (up to 50 meters in an open and non-interference environment, up to 30 meters in an obstacle environment)
- Real-time monitoring function with headphones.
- The volume of receiver and transmitter can be adjusted arbitrarily to adapt to the volume level of different equipment.
- Mute mode.
- Adopt OLED display, high-definition and easy to see.
- Receiver and transmitter are powered by two AA batteries.

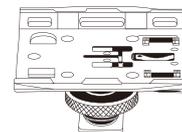
## Packing List



MS1-R Receiver



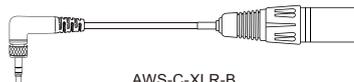
MS1-T Transmitter



Bracket holder



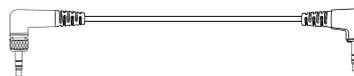
Belt Clip



AWS-C-XLR-B  
3.5mm balanced XLR cable



ME4-J  
TRRS to dual 3.5mm conversion cable

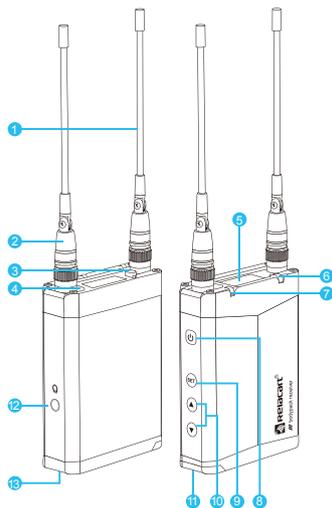
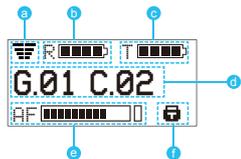


AWS-C-MINI-B  
3.5mm balanced cable



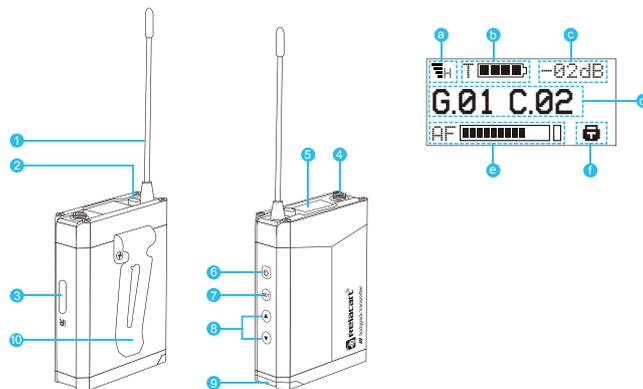
LM-P01 Clip microphone

## MS1-R Bodypack receiver



- 1 Receiving antenna B.
- 2 Receiving antenna A.
- 3 AFS button: Automatic frequency scan.
- 4 Infrared counter frequency transmission window.
- 5 OLED display:
  - a. True diversity, A and B channel radio frequency signals;
  - b. Receiver battery indication;
  - c. Transmitter battery indication;
  - d. Frequency or channel display;
  - e. AF indicator;
  - f. Lock indicator.
- 6 RF indicator: Shows the connection status between the transmitter and receiver.
  - Red: No RF signal is detected by the receiver.
  - Blue: The receiver detects a strong RF signal.
  - Flashing: Low power indication.
- 7 Peak indicator: Record whether the output signal of the device is too strong and distorted.
  - Blue: The output level is normal and there is no distortion.
  - Flashing red: The output signal reaches the peak value and may cause distortion.
- 8 Power/Mute button: Long press device power to be on or off, short press to mute. (In the menu mode, short press to return to the previous menu)
- 9 Setting button: Long press to enter menu mode or confirm the menu setting.
- 10 ▲ / ▼ button: select menu settings.
- 11 Battery bin: can hold two AA batteries.
- 12 3.5mm headphone monitoring interface.
- 13 3.5mm balanced output interface.

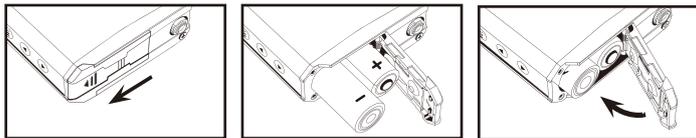
## MS1-T Bodypack transmitter



- 1 Transmitter Antenna (ANT).
- 2 Mute switch.
- 3 Infrared counter frequency transmission window.
- 4 3.5mm microphone input interface.
- 5 OLED display:
  - a. Signal power setting;
  - b. Transmitter battery indication;
  - c. Volume setting;
  - d. Frequency or channel display;
  - e. AF indicator;
  - f. Lock indicator.
- 6 Power button: Long press device power to be on or off. (In the menu mode, short press to return to the previous menu)
- 7 Setting button: Long press to enter menu mode or confirm the menu setting.
- 8 ▲ / ▼ button: select menu settings.
- 9 Battery bin: can hold two AA batteries.
- 10 Belt clip: Fix the transmitter around the user's waist.

## Getting Started

### Installing the Batteries

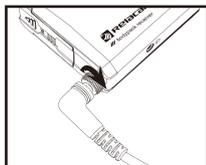


1. Open the battery compartment by sliding the battery compartment door in the directions indicated by the arrow.
2. Install the batteries into the battery compartment. Make sure to match the polarity indicated on the inside of the battery compartment door.
3. Press the battery compartment door down, and slide it back into place until it locks shut.

### Connecting the Receiver

The MS1 microphone system includes two output cables for devices with an XLR input or a 3.5 mm TRS input. The output cable adopts a right-angle locking 3.5mm connector, which can be flexibly positioned whether the receiver is installed on a camera or used on other equipment. Choose the appropriate cable for your device, and follow these steps:

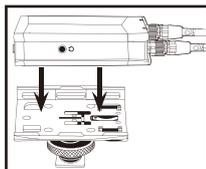
1. Plug the right-angle male 3.5 mm plug into the output jack on the bottom of the MS1-R receiver, and turn the locking sleeve clockwise until tight.
2. Connect the other end of the cable to your device.



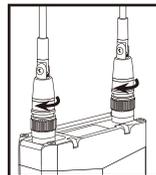
### Mounting the Receiver

To use the MS1 as a shoe-mounted wireless system mounted on a camera, follow these steps:

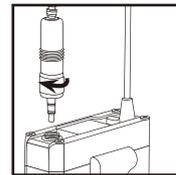
1. Align the camera mount with the back of the MS1-R receiver. Press it onto the receiver until it snaps into place.
2. Loosen the locking ring by turning it counterclockwise and slide the mounting foot into your camera's shoe mount.
3. Tighten the locking ring by turning it clockwise until it's secure.



### Receiver antenna installation and transmitter connection microphone



(Receiver Antenna Installation)

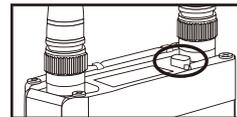


(Transmitter Connect to Microphone)

1. Screw the A and B antennas clockwise into the threaded antenna sockets. Make sure they are tightly attached.
2. Plug the microphone's male 3.5 mm plug into the input jack on the top of the MS1-T transmitter. Secure the cable by turning the locking sleeve clockwise until tight.

### Auto Frequency Scanning [AFS]

1. Power on the receiver and transmitter.
2. Press and hold the AFS button on the receiver to initiate a frequency scan. The receiver will scan all available frequencies and select a frequency without interference. Once the scan is complete, and the receiver will automatically send out a sync signal from its IR port.
3. Position the transmitter and receiver so their IR ports face each other. [SYNC ✓] will appear on the receiver's screen when the devices have been successfully synced.



**Note:** The receiver sends an IR sync signal for approximately 10 seconds. If syncing is not accomplished in that time, you can restart the process by pressing and holding the AFS button again.

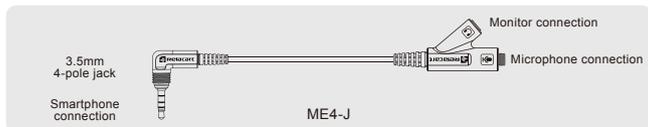
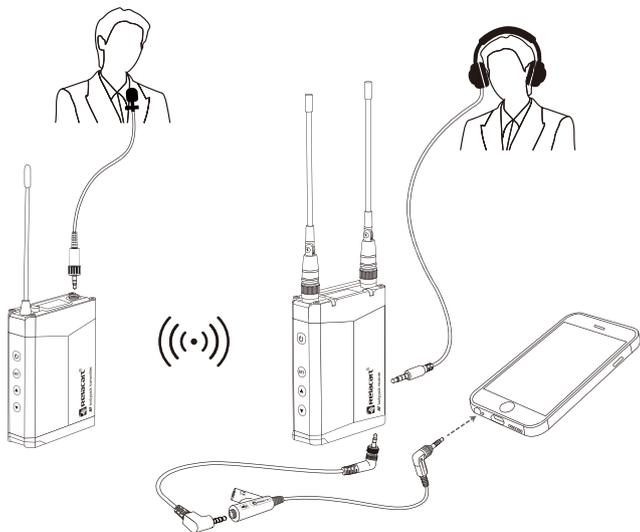
### Manual Sync

To manually sync the receiver and transmitter to the same frequencies, follow these steps:

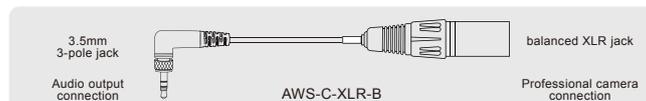
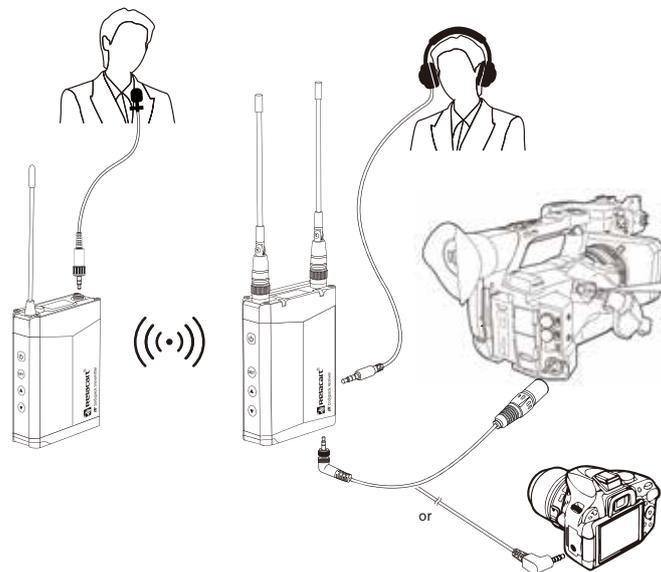
1. On the receiver or transmitter press and hold the "Set" to enter the setting menu.
2. Find the "Frequency" function, select "Channel or Pilot" to confirm, and SYNC.

## Product connection use

### Products with smart phone connection schematic diagram



### Products with ordinary or professional camera connection schematic diagram



\* Please connect the cable to the same terminal as the above picture according to the device you are using.

## Matching of receiver and transmitter

Before leaving the factory, the receiver and transmitter of each product have been set up in pairs, and can be used directly when starting.

If the radio signals of the receiver and transmitter are connected properly, the blue light indicator of the receiver will be long on, and the parameters of the display screen will be the same as that of the transmitter; if not connected, the receiver blue light indicator will not be on.

However, if the channel is noisy, you can change the interference-free channel or frequency through the "AFS" function or manual synchronization.

## Specifications

### MS1-R Receiver Specifications

Frequency response: 80 Hz ~ 15 KHz

Total harmonic distortion: <0.9%

Pilot tone frequency: 32.768 KHz

Power requirement: 2.0 ~ 3.6 V

Operating temperature: 0°C ~ 55°C

Dimensions without antennas: 80mm(H) × 58mm(W) × 20mm(D)

Weight: 116g (Without batteries)

### MS1-T Transmitter Specifications

Reference input level: -26dBV

Frequency response: 80 Hz ~ 15 KHz

Signal-to-noise ratio: <100 dB

Pilot tone frequency: 32.768 KHz

Power requirement: 2.0 ~ 3.6 V

Operating temperature: 0°C ~ 55°C

Dimensions without antenna: 70mm(H) × 50.8mm(W) × 20mm(D)

Weight: 84g (Without batteries)