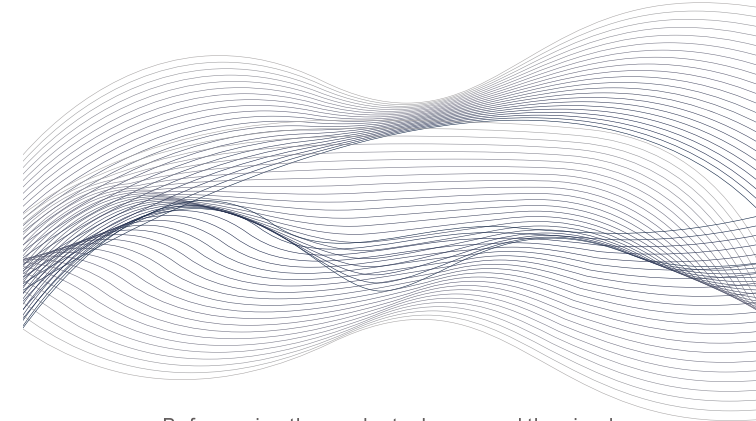




CR-2

UHF Wireless Microphone System
Simple Operation Manual



Before using the product, please read the simple operation manual and keep it in good condition.

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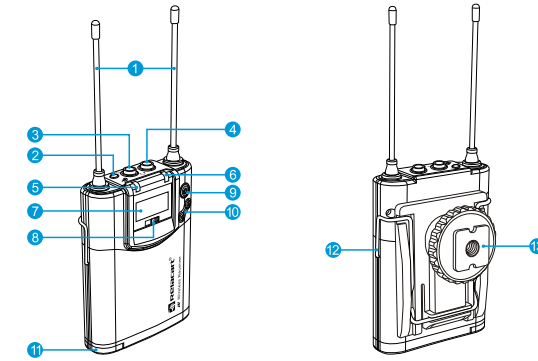
Introduction

Relacart CR-2 is a highly cost-effective dual-channel 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 main feature is that both transmitter and receiver use OLED display screen with high brightness to display corresponding product information, Chinese and English language selection is supported. Infrared automatic frequency matching and lock the selected application frequency. The transmitter supports MIC and LINE interfaces, volume adjustment, RF output power adjustment, etc. The receiver supports earphone and output volume adjustment, AFS automatic frequency scanning, etc. The effective working distance is about 60 meters.

Characteristic

- ◆ UHF one receiver with two transmitters wireless transmission, providing high fidelity sound.
- ◆ Widely compatible with smart phones, digital SLR cameras, camcorders, recorders and personal computers.
- ◆ DSP digital audio companding adopts 48KHz audio sampling rate to minimize the noise in wireless transmission system and effectively restore the picked-up sound.
- ◆ Output volume and monitor headphone volume can be adjusted independently.
- ◆ Multiple switchable frequency or automatic scanning frequency to realize the operation without environmental interference.
- ◆ Adjustable transmission power.
- ◆ Infrared automatic frequency matching and locking corresponding frequency.
- ◆ OLED display screen is used to display corresponding product information, brightness can be adjusted, and Chinese and English language selection is supported.
- ◆ Both the receiver and transmitter are powered by two AA batteries.

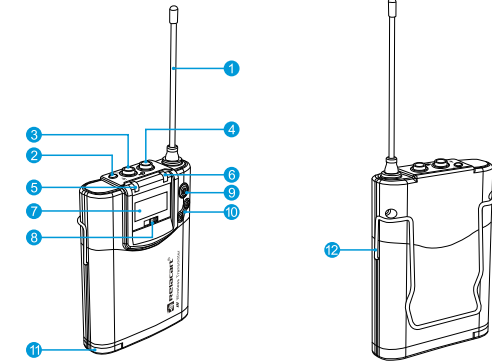
Bodypack Receiver



- 1 Receiving antenna.
- 2 Power switch: long press power to be on or off.
- 3 3.5mm audio output interface.
- 4 3.5mm headphone monitoring interface.
- 5 Blue: RX 1 signal input indication.
- 6 Blue: power indicator.
- 7 Red flashing: low power indication.
- 8 Blue: the receiver and transmitter are connected successfully.
- 9 Off: receiver disconnected from transmitter.
- 10 OLED display: display frequency, channel, current battery capacity and other information.
- 11 Infrared counter frequency transmission window.
- 12 "▲/▼" button: enter menu setting or confirm menu setting.
- 13 "▲/▼" button: select menu setting.
- 14 Battery bin: can hold 2 AA batteries.
- 15 Belt clip: fix the receiver on the user's waist or fit into the groove of the shoe adapter handle.
- 16 Shoe adapter: for installing and fixing microphone on camera.

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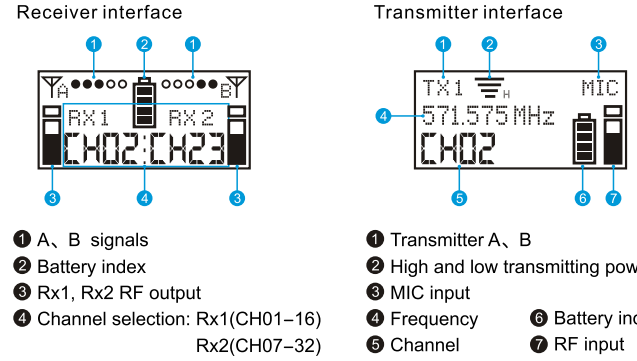
Bodypack Transmitter



- 1 Transmitting antenna.
- 2 Power / MUTE switch: long press power to be on or off / Short press is mute.
- 3 3.5mm microphone input interface.
- 4 3.5mm audio input interface.
- 5 Blue: power indicator.
- 6 Red flashing: low power indication.
- 7 Blue: audio level indication.
- 8 Red: peak indication.
- 9 Flashing red: audio mute indication.
- 10 OLED display: display frequency, channel, current battery capacity and other information.
- 11 Infrared counter frequency transmission window.
- 12 "▲/▼" button: enter menu setting or confirm menu setting.
- 13 "▲/▼" button: select menu setting.
- 14 Battery bin: can hold 2 AA batteries.
- 15 Belt clip: fix the transmitter around the user's waist.

3

OLED Display operating instructions



- To set up the receiver or transmitter menu, follow these steps:
1. Long press the "★" key to enter the menu setting.
 2. Press "▲/▼" again to scroll the menu bar.
 3. Press the "★" key to enter the edit / confirm menu setting.

How to set up MONO and STEREO

1. Press the "★" ("▲/▼") selection button to select "MONO" or "STEREO".
2. Press the "★" key to confirm the setting.

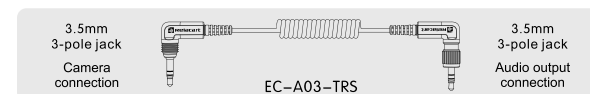
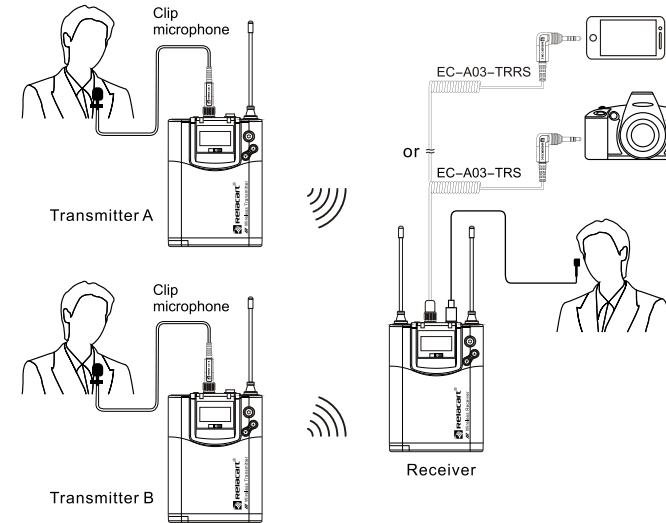
Remark: the factory setting mode is MONO.



Subsequent settings are stored in memory. Next time when you turn on the transmitter, it will be automatically consistent with the mode set at the last shutdown.

4

How to connect the transmitter and receiver

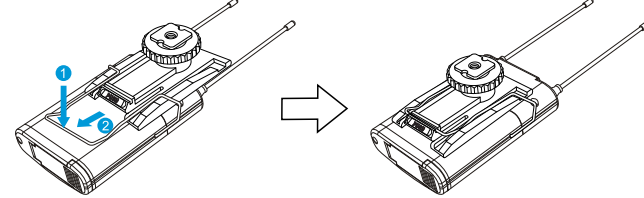


* Please connect the cable to the same terminal as above according to the equipment you use.

5

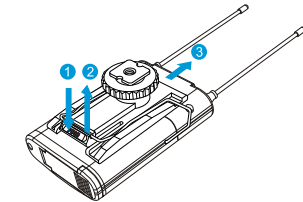
Install or disassemble shoe adapter

Install the shoe adapter



Push the bottom of the belt clamp (1) to create a certain space between the belt clamp and the receiver, align the belt clamp with the two vertical grooves on the shoe adapter, and then insert the adapter in the direction of the arrow (2), fully push the shoe adapter until the belt clamp is fitted into the horizontal groove on the adapter handle.

Disassemble the shoe adapter



Push and hold the position marked "PUSH" on the shoe adapter (1), separate the horizontal part of the belt clamp from the horizontal part and groove on the shoe adapter (2), then push the shoe adapter in the direction of the arrow (3).

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Matching of receiver and transmitter

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

If the radio signals of the transmitter and receiver are connected properly, the green 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 indicator will not be on.

Remark:

Channel 1 and channel 2 of the receiver can be adjusted separately. When two transmitters are used, transmitter 1 and transmitter 2 do not need to keep the same channel.

Just set CH-A receiver to the same channel as transmitter CH-A and CH-B of receiver to the same channel as transmitter CH-B.

1. If you use multiple CR-2 wireless microphone systems, make sure that each system is set to a different channel, which can reduce the possibility of mutual interference.
2. If the transmitter and receiver are connected, the status light of the receiver remains blue. Conversely, if the status light of the receiver is off, it means that the transmitter and receiver are disconnected.
3. The setting result will be saved in memory automatically. Turn on the transmitter and receiver again, and the channel, channel and other information will be consistent with the last setting.
4. Insert the headset into the receiver for monitoring. When the volume of the headset is low, gradually adjust the volume to a comfortable volume to monitor the transmission.
5. After confirming that the transmission quality is good, install the transmitter and receiver.
6. When you set the transmission channel, the transmitter cannot be used to transmit signals.
7. Do not remove the battery when setting the transmission channel.

However, if the selected channel is noisy, perform the following steps:

1. Press the "★" keys of the transmitter to enter the menu setting.
2. Press the "★" button of the receiver, then press "▲/▼" to select "ACT SCAN", and then select the channel 1 or channel 2 to be connected. The receiver will search for the transmitter's channel automatically, and then connect automatically.
3. Select the channel until you hear a clear sound.

7

Product Specification

System Specifications

| | | | |
|---|---------------|----------------------|--------|
| RF Carrier Range | 470MHz~960MHz | Dynamic Range | 90 dB |
| Frequency Stability | 0.005% | S/N | 91 dB |
| Audio Frequency Response | 180Hz ~ 16KHz | Audio sampling rate | 48 KHz |
| Audio companding | | DSP Audio companding | |
| Operating Range (environment dependent) | | ≥ 60 M | |
| T.H.D | | ≤ 1%, @1KHz | |
| Operating Temperature Range | | -10°C ~ +50°C | |

CR-2

| | | | |
|--|-----------------------------|---|-----------------|
| Receiving Bandwidth | 470MHz~960MHz | Output Impedance | 400 Ω |
| Receiving Mode | Superheterodyne | Battery Life | ≥ 7 Hours |
| Image Rejection | 45dBm | Power Requirements | AA 1.5V x 2 |
| Maximum output Level | LINE: 0.5Vpp ; Phone: 1Vpp | Current Consumption | 3V 160mA |
| Squelch Adjustment | built-in setting parameters | Overall Dimensions | 95 x 65 x23(mm) |
| RF Sensitivity | | when input is 10dBu, S/N ≥ 45dB | |
| Frequency Sync Mode | | Manual key setting or infrared transmission | |
| Adjustment range of audio output level | | 9 levels adjustable, attenuation adjustment, every 1dB step | |
| Net Weight (without battery) | | 100g | |

CB-2

| | | | |
|------------------------------|-----------------|---|-----------------|
| Switching bandwidth | 470MHz~960MHz | Harmonic Emissions | -32dBm |
| Frequency Generation | PLL synthesized | Modulation | FSK |
| RF Output Power | 13.5 dBm | Max Input Level | 250mV |
| Carrier Deviation | 0.005% | Impedance | 2.2KΩ |
| Power Requirements | AA 1.5V x2 | Battery Life | ≥ 11 Hours |
| Nominal/ Peak deviation | ± 65KHz | Overall Dimensions | 95 x 65 x23(mm) |
| Frequency Set-Up | | Manual key setting or infrared transmission | |
| Gain Adjustment Range | | 4 level adjustment setting, every 3dB step | |
| Current Consumption | | 130mA | |
| Net Weight (without battery) | | 100g | |

8

125mm

FCC Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

RF Exposure Information

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