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# CR-1

UHF 無線麥克風系統  
UHF Wireless Microphone System

## 快速使用指南 Quick User Guide

使用產品前請仔細閱讀快速使用指南,并妥善保管  
Before using the product, please read the quick user  
guide and keep it in good condition



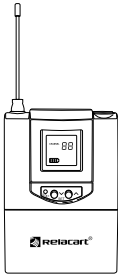
# Introduction

RELACART CR-1 is a highly cost-effective UHF wireless microphone system, compatible with smart phones (3.5mm interface), digital/SLR cameras, portable cameras, recorders, tablets and other equipment to help pick up high-fidelity audio. It is suitable for interviews, microfilm recording or commercial demonstrations and other applications. The transmitter supports microphone input interface, and the receiver has earphone monitoring function. The effective working distance is about 80 meters in the open space. Both transmitter and receiver have the function of key lock to prevent user from misoperation.

# Characteristic

- ◆ UHF wireless transmission, providing high fidelity sound source.
- ◆ Widely compatible with smart phones, digital SLR cameras, portable cameras, tape recorders, tablets, etc.
- ◆ Digital audio compression of DSP reduces the noise in wireless transmission system to the lowest level.
- ◆ 10 switchable frequencies to realize the operation without environmental interference.
- ◆ The volume of receiver and transmitter can be adjusted arbitrarily to adapt to the volume level of different equipment.
- ◆ Real-time monitoring function with headphones.
- ◆ Receiver and transmitter are powered by two AA batteries.

# Packing List



CR-1R  
Bodypack receiver

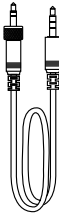


CR-1B  
Bodypack transmitter

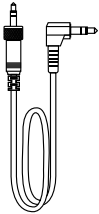


CR-1H  
Handheld transmitter

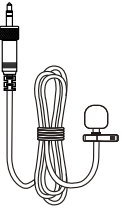
(2 Select 1)



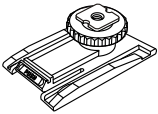
RPA-40M  
Cellphone audio cable



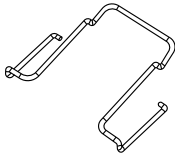
RCA-40M  
Camera audio cable



ROL-100  
Clip microphone  
(Attach the bodypack mic by default)

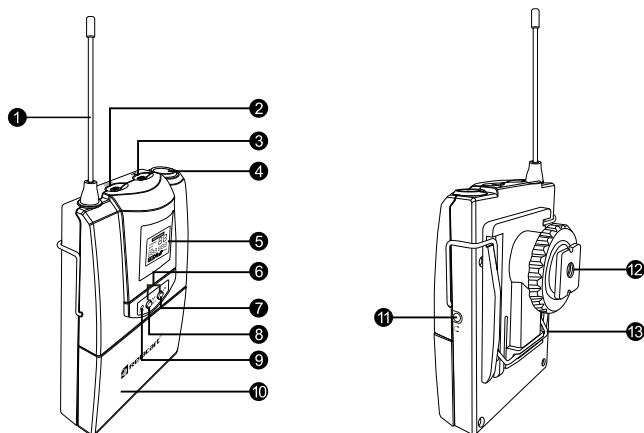


HCM-100  
Hotshoe camera mount



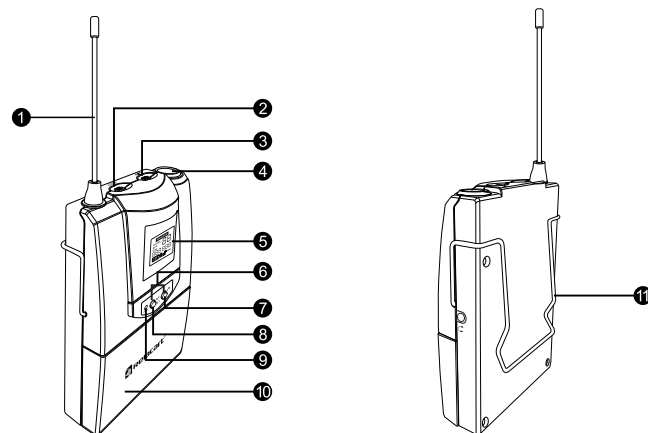
BC-1  
Belt clip

## Receiver



1. Receiving antenna (ANT).
2. Power switch: turn on or off the receiver.
3. Switch lock: dial to lock or unlock receiver.
4. Audio output interface: 3.5mm jack.
5. Display screen: display frequency, channel, and battery power.
6. Setting: press the volume "▲" and "▼" at the same time to enter the channel menu settings.
7. Volume "▲": press the volume key to increase the volume.
8. Volume "▼": press the volume key to attenuate the volume.
9. State indicator: when no signal is received, the state indicator does not turn on.  
 Green: working normally.  
 Red light flashing: low power.
10. Battery bin: can hold 2 AA batteries.
11. Headphone monitoring port: 3.5mm jack.
12. Hotshoe camera mount: install and fix microphones on camera equipment.
13. Belt clip: fix the receiver around the user's waist.

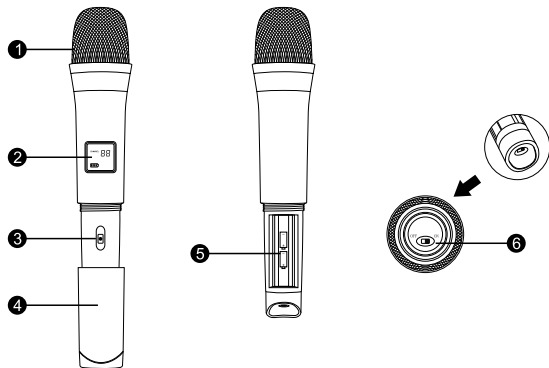
## Transmitter



1. Transmitter Antenna (ANT).
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7. Volume "▲": press the volume key to increase the volume.
8. Volume "▼": press the volume key to attenuate the volume.
9. State indicator:  
 Green: working normally.  
 Red light flashing: low power.
10. Battery bin: can hold 2 AA batteries.
11. Belt clip: fix the transmitter around the user's waist.



## Handheld Transmitter

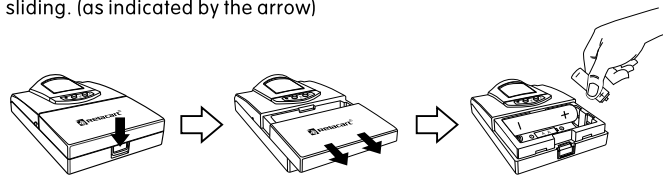


1. Microphone head: The main component that transfers the voice to audio signal.
2. LCD display: display working channel and battery level. The full power is 4 grids, when shows 1 grids, please replace the new battery.
3. Channel selection switch: long press the button to change the current channel.
4. End cover: release it can see the battery bunker.
5. Battery bin: can hold 2 AA batteries.
6. Power switch: turn on or off the transmitter.

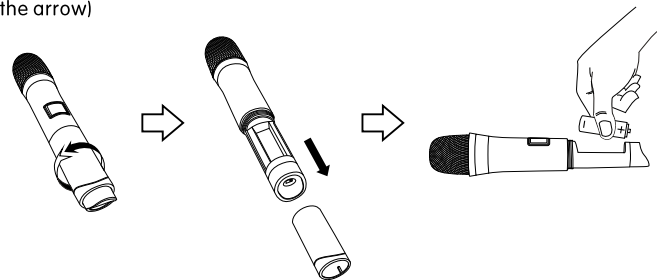
## Battery Installation

The transmitter and receiver are powered by two AA batteries. Please refer to the following steps to install the battery.

1. When this switch is pressed, the battery cover can be uncovered by sliding. (as indicated by the arrow)



After unscrewing, push down to open the battery cover (as indicated by the arrow)



Match the battery polarity with the instructions of the battery bunker and insert the battery into the bunker. (Alkaline 1.5V AA battery is the best choice. Replace the two sections of new battery at the same time.)

### Warning:

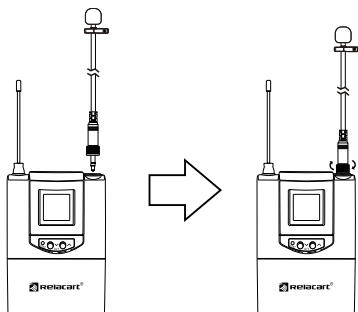
Do not incorrectly install the battery polarity, which may damage the internal electronic components.

### Note:

1. When the battery power is insufficient, the battery needs to be replaced immediately.
2. When the device not in use for a long time, the battery should be removed to avoid leakage.

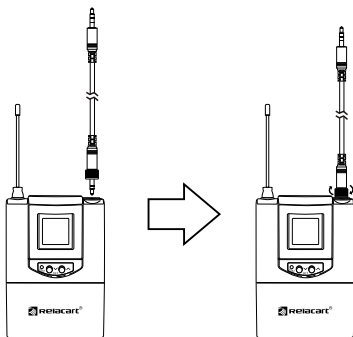
## Accessories installation

1. The transmitter connects the clip microphone interface and locks the connector lock after safe connection.



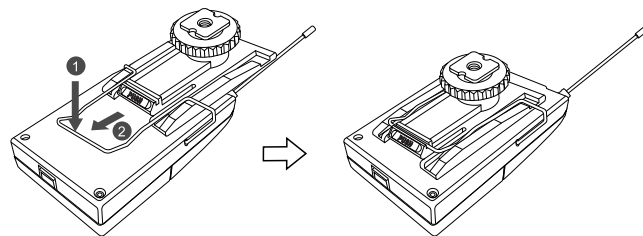
( Note: Turn off the transmitter before installing or removing the microphone )

2. The audio line interface of the receiver, locks the connector lock after safe connection.



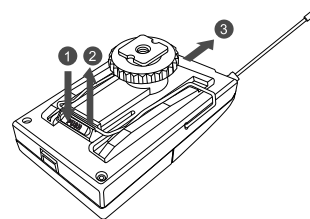
To ensure safe connection, be sure to turn and lock the connector lock.

3. Install hotshoe camera mount



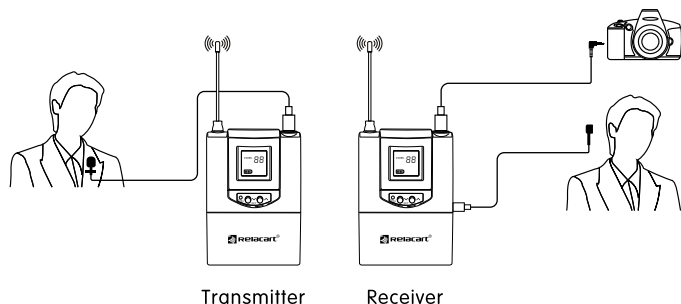
Push the bottom of the belt clip (1) to create a certain space between the belt clip and the receiver. Align the belt clip with the two vertical grooves on the hotshoe camera mount and insert the camera mount (2) in the direction of the arrow.

4. Disassemble hotshoe camera mount



Push and hold the position marked "PUSH" on the hotshoe camera mount (1), separate the horizontal part of the belt clip from the level and groove on the hotshoe camera mount (2), and then push the hotshoe camera mount in the direction of the arrow (3).

## How to connect transmitter and receiver



## Matching of transmitter and receiver

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.

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

1. Press the "▲" and "▼" keys of the transmitter at the same time, the screen will display the channel number.
2. The receiver will automatically connect to the transmitter.
3. Choose the channel until you hear a clear voice.

## Use microphones in conjunction with smart phones, tablets or computers.

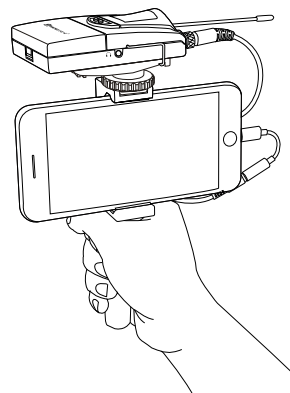
### Transmitter

1. If you need to shoot different subjects, insert the microphone into the microphone interface of the transmitter.
2. Slide the POWER switch to the open position (the LED light will be turned green) .
3. Clip the transmitter on the belt, or just puts the transmitter into the pocket.

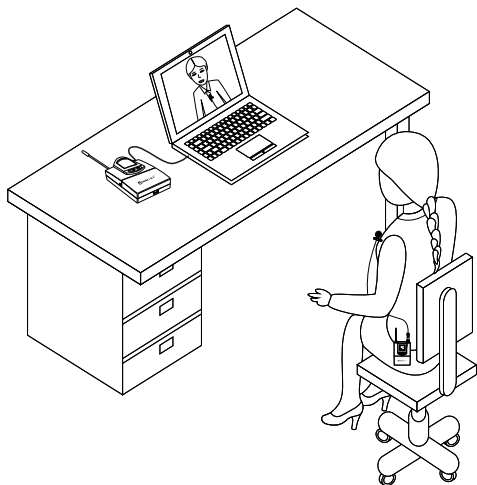
### Receiver

1. Install the receiver on a smart phone, tablet or computer .
2. Insert another connector into the audio jack of the smart phone .
3. Insert headphones into the receiver's output interface for monitoring the sound.
4. Slide the POWER switch to the open position (the LED light will be turned green) .

Note: Please don't mix the plug.



Receiver cooperate with smart phone



Receiver cooperate with PC

If the transmitter or receiver is lost or damaged and needs to be reconnected, refer to the following steps:

1. Slide the POWER switch of transmitter and receiver power supply to the open position.
2. Press the volume key "▲" and "▼" at the same time until the screen channel flashes. (Bodypack receiver and transmitter)
3. Short press the "▲" and "▼" key to switch channels. (Bodypack receiver and transmitter)
4. Handheld transmitter, can long press the channel button to change the current channel.
5. Set the transmitter and receiver to the same channel, and the green light of the receiver will be on normally.  
(If the LED lights of the transmitter and receiver remain green, the system is connected successfully. Otherwise, try step1–5 again. )

## Use microphones in conjunction with cameras, recorders and other audio & video recording equipment

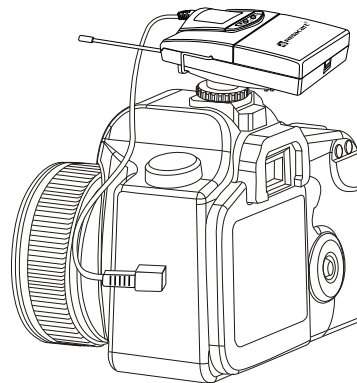
### Transmitter

Refer to page 10 on how to set up the transmitter.

### Receiver

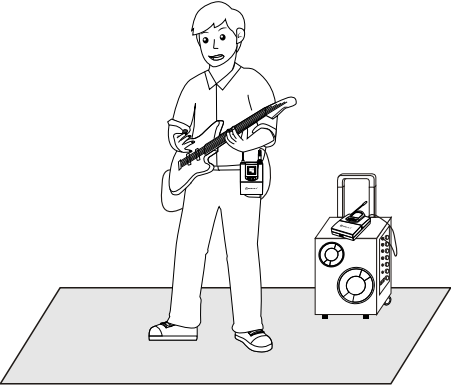
1. Install the receiver on cameras, tape recorders and other audio & video recording equipment.
2. Insert 3.5mm plug into the audio jack of the camera.
3. Insert headphones into output interface to monitor sound.
4. Slide the POWER switch to the open position (the LED light will be turned on in green).

Note: Please don't mix the plug.



Receiver cooperate with camera

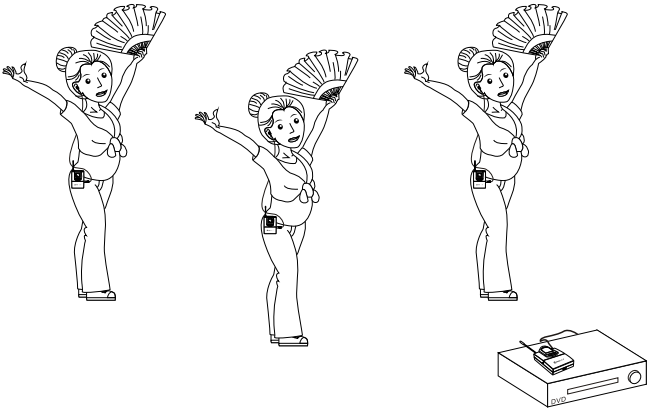
# Equipment application



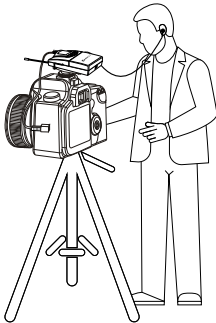
Instrument performance application



Voice recording



Outdoor entertainment application



Interview application

## Product Specification

### CR-1

RF Carrier Frequency Range	470MHz~960MHz
Frequency Stability	0.005%
Effective Working Distance (Ideal environment)	≥80M
Audio Compression	Digital Audio Compression
Audio Frequency Response	50Hz ~ 1600Hz ± 3dB
Dynamic Range	85 dB
S/N	80 dB
T.H.D	≤1%,@1KHz
Working Temperature Range	-10℃ ~ +50℃

### CR-1R

Receiving Bandwidth	470MHz~960MHz
Receiving Mode	Superheterodyne
Mirror Suppression	45dBm
RF Sensitivity	when input is 10dBu, S/N ≥ 45dB
Noise Regulation	built-in setting parameters
Frequency Synchronization	Manual key settings
Max Output Level	LINE:0.5Vpp ,Phone:1Vpp
Output Level Adjustment Range	30 level for adjustment, attenuation adjustment, Every 2dB step
Output Impedance	400Ω
Power	AA 1.5V x2
Normal Working Current	3V 150mA
Battery Life	≥8.5Hours
Dimension(mm)	95 x 65 x23
Net Weight (without battery)	100g

### CR-1B

Carrier Frequency	470MHz~960MHz
Oscillation	PLL synthesized
Transmission Power	30mW
Carrier Error	0.005%
Harmonic radiation	-32dBm
Modulation	FSK
Nominal/Maximum Frequency Offset	± 65KHz
Max Input Level	250mV
Input Impedance	2.2KΩ
Input Gain Adjustment Range	4 level adjustment setting, every 3dB step
Frequency Setting	Manual key setting
Power	AA 1.5V x2
Normal Working Current	130mA
Battery Life	≥11Hours
Dimension(mm)	95 x 65 x23
Net Weight (without battery)	100g

### CR-1H

Carrier Frequency	470MHz~960MHz
Oscillation	PLL synthesized
Transmission Power	30mW
Carrier Error	0.005%
Harmonic radiation	-32dBm
Modulation	FSK
Nominal/Maximum Frequency Offset	± 65KHz
Max Input Level	250mV
Input Impedance	2.2KΩ
Frequency Setting	Manual key setting
Power	AA 1.5V x2
Normal Working Current	130mA
Battery Life	≥11Hours
Dimension(mm)	50 ( φ ) x233 ( L )
Net Weight (without battery)	246g

## PRODUCT CLEANING

Use dry and soft cloth to clean the surface and joints of parts of this product. Do not use diluents, benzene, alcohol or any other chemicals, as they may damage the paint.

## IMPORTANT SAFETY TIPS

- Please read the safety tips and product instructions carefully.
- Keep the safety tips and product instructions properly. When handing over the equipment to others for use, be sure to attach this safety tips and instructions.
- Please pay attention to all warning tips.
- Please follow all instructions.
- When recording, do not touch the collar clip microphone, transmitter and receiver; otherwise, there will be noise.
- Do not place transmitters and receivers in a dry and cool place. When the camera stored in another closed place, do not put the microphone and camera together.
- Do not use transmitters and receivers interchangeably.
- If you don't use the microphone for a long time, please remove the battery.

## MAINTENANCE

- Do not operate with wet hands.
- Please clean the product according to the instructions.
- Protect the product from falling. Before using it, please let professional electronic maintenance personnel check it.
- If the product is damaged or you smell burning, unplug the battery immediately and don't repair it by yourself, please let the professional repair it.
- Please follow the instructions strictly and keep the equipment in good condition.
- Don't unpack the equipment.

## WARNING

- Place the equipment out of the reach of the child.
- Do not use leaky batteries, do not put batteries into fire.

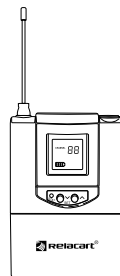
## 引言

RELACART CR-1是一款性價比極高的UHF無線麥克風系統，可兼容智能手機（3.5mm接口），數碼/單反相機，便攜式攝像機，錄音機，平板電腦等等設備輔助拾取高保真音頻；此商品適合採訪、微電影錄制或商業演示等等的應用場合。發射機支持麥克風輸入接口；接收機設有耳機監控功能，有效工作距離在空闊場合約80米。發射機和接收機均帶有按鍵鎖定防止用戶誤操作的功能。

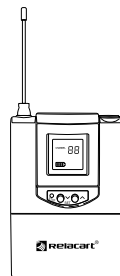
## 特點

- ◆ UHF無線傳輸，提供高保真的音源；
- ◆ 廣泛兼容智能手機、數碼單反相機、便攜式攝像機、錄音機、平板電腦；
- ◆ DSP數字音頻壓擴，將無線傳輸系統中的噪聲降至最低；
- ◆ 10個可切換頻點，實現無環境干擾的操作；
- ◆ 接收機、發射機音量可任意調節，適應不同設備的音量電平；
- ◆ 附帶耳機的實時監控功能；
- ◆ 接收機和發射機均由兩節AA電池供電；

## 包裝清單



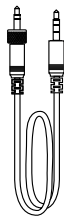
CR-1R  
腰包接收器



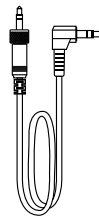
CR-1B  
腰包發射器



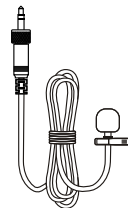
CR-1H  
手持試發射器  
(發射器2選1)



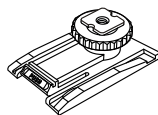
RPA-40M  
手機音頻線



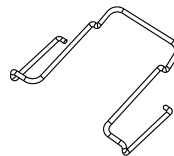
RCA-40M  
相機音頻線



ROL-100  
全向領夾式麥克風  
(腰包時標配)



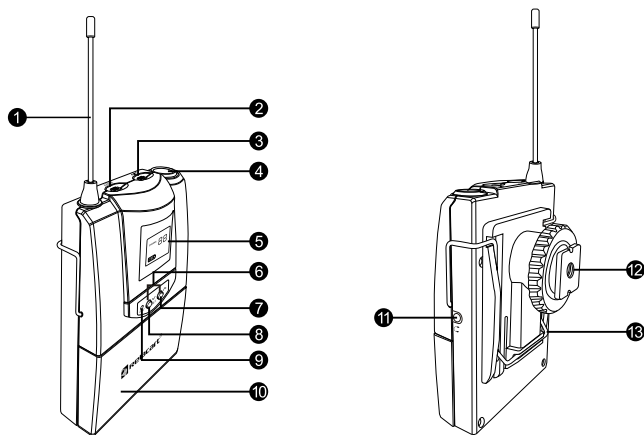
HCM-100  
熱靴適配器



BC-1  
腰帶夾



## 接收器



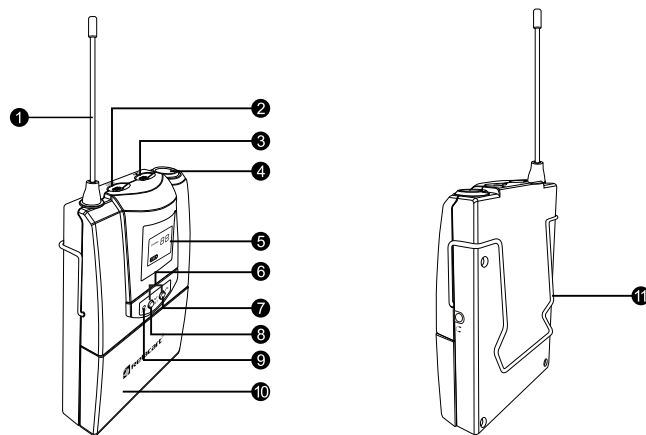
- 1.接收天線 (ANT)。
- 2.電源開關：撥動打開或關閉接收器。
- 3.開關鎖：撥動鎖定或解鎖接收器。
- 4.音頻輸出接口：3.5mm插孔。
- 5.顯示屏：顯示頻率 and 通道，以及電池電量。
- 6.SET設置：同時按下音量“▲、▼”進入通道菜單設置。
- 7.音量“▲”：短按音量鍵增加音量。
- 8.音量“▼”：短按音量鍵衰減音量。
- 9.狀態指示燈：沒有接收到信號時，狀態指示燈不亮。

綠色：正常工作。

紅色閃爍：電量過低。

- 10.電池倉：可容納2節AA電池。
- 11.耳機監聽端口：3.5mm插孔。
- 12.熱靴適配器：在攝像設備上安裝和固定麥克風。
- 13.腰帶夾：將接收器固定在用戶腰部周圍。

## 發射器



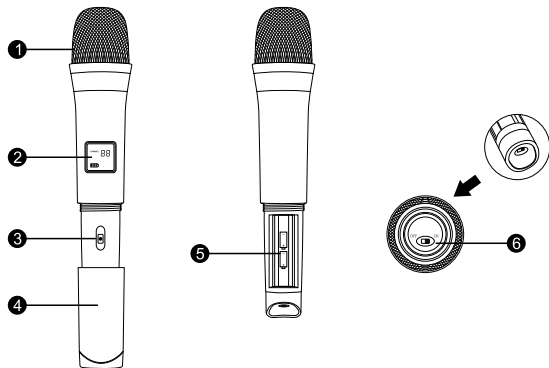
- 1.發射天線 (ANT)。
- 2.電源開關：撥動打開或關閉發射器。
- 3.開關鎖：撥動鎖定或解鎖發射器。
- 4.麥克風輸入接口：3.5mm插孔。
- 5.顯示屏：顯示頻率 and 通道，以及電池電量。
- 6.SET設置：同時按下音量“▲、▼”進入通道菜單設置。
- 7.音量“▲”：短按音量鍵增加音量。
- 8.音量“▼”：短按音量鍵衰減音量。
- 9.狀態指示燈：

綠色：正常工作。

紅色閃爍：電量過低。

- 10.電池倉：可容納2節AA電池。
- 11.腰帶夾：將發射器固定在用戶腰部周圍。

## 手持話筒發射器

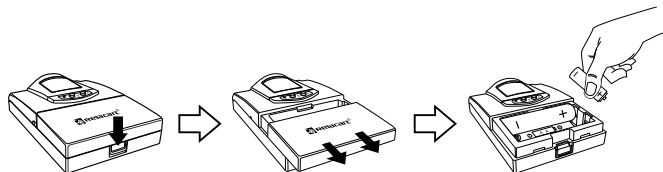


- 1.音頭模組：將聲音轉換成音頻信號的主要元件。
- 2.LCD顯示屏：液晶顯示工作頻道及電池電量；電池電量指示，滿電為4格，當祇剩下1格點時，請盡快更換新電池。
- 3.頻道選擇開關：長按此按鍵可切換當前頻道。
- 4.尾蓋：旋開後可露出電池倉。
- 5.電池座：裝填2節AA電池。
- 6.供電開關：接通或斷開發射機供電。

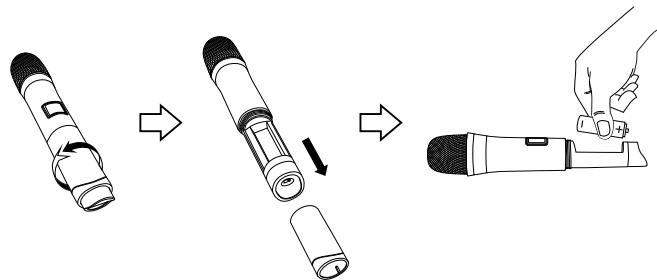
## 電池安裝

發射器、接收器均由兩節AA電池供電。要安裝電池，請按照以下步驟操作。

1. 按下此開關後，滑動可揭開電池蓋。（按“→”箭頭指示）



- 旋開後，向下推動可打開電池蓋。（按“→”箭頭指示）



將電池極性與電池倉的指示相匹配，將電池插入電池倉。（使用碱性1.5V AA電池為最佳，更換新的電池同時更換兩節。）

### 警告：

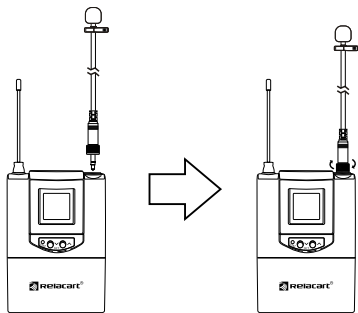
請勿將電池極性錯誤安裝，這可能損壞內部電子元件。

### 注意：

1. 當電池電量不足時，需要立即更換電池。
2. 長時間不使用時，應拆下電池，以免漏電。

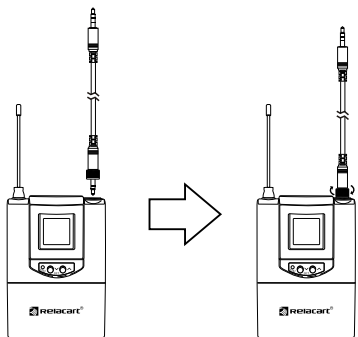
## 附件安裝

1. 發射器連接領夾麥克風接口，安全連接後鎖定連接器鎖。



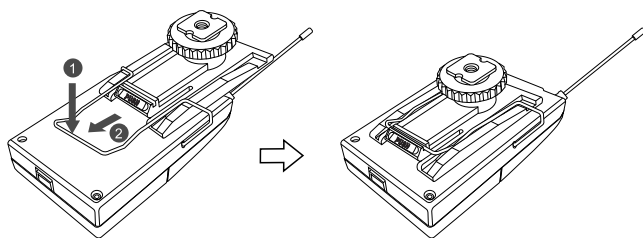
(注意：安裝或拆卸麥克風之前請關閉發射器)

2. 接收器連接音頻纜接口，安全連接後鎖定連接器鎖。



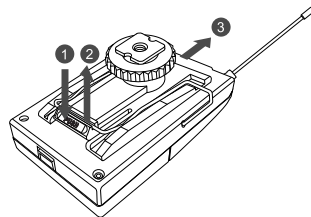
要確保安全連接，請務必轉動并鎖定連接器鎖。

3. 安裝熱靴適配器



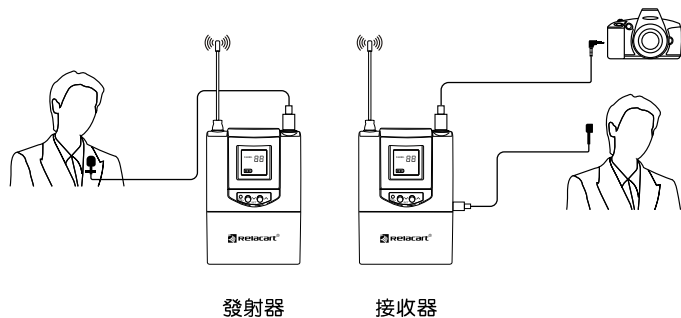
推動腰帶夾底部(①)，使腰帶夾和接收器之間產生一定的空間，將腰帶夾對準熱靴適配器上的兩個垂直凹槽，然後按照箭頭的方向插入適配(②)，充分推入熱靴適配器，直到腰帶夾裝配到適配器把柄上的水平凹槽內。

4. 拆卸熱靴適配器



推動并握住熱靴適配器上標有“PUSH”的位置(①)，將腰帶夾的水平部分從熱靴適配器上的水平、凹槽分離(②)，然後，按箭頭方向推動熱靴適配器(③)。

## 如何連接發射器和接收器



## 發射器與接收器配對

出廠前，每個產品的發射器和接收器已配對設置，開機可直接使用。

如果發射器和接收器的無線電信號已經連接正常，接收機的綠燈指示燈會長亮，顯示屏的參數與發射器的一致；若是沒有連接上，接收器指示燈不亮。

但是，如果所選頻道有噪聲，請執行以下步驟：

- 1.同時按下發射器的音量“▲、▼”按鍵，屏幕顯示通道號。
- 2.接收器將自動與發射器連接。
- 3.選擇頻道，直到您聽到清晰的聲音。

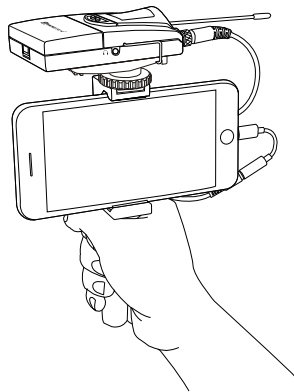
## 將麥克風與智能手機、平板電腦或電腦配合使用

### 發射機

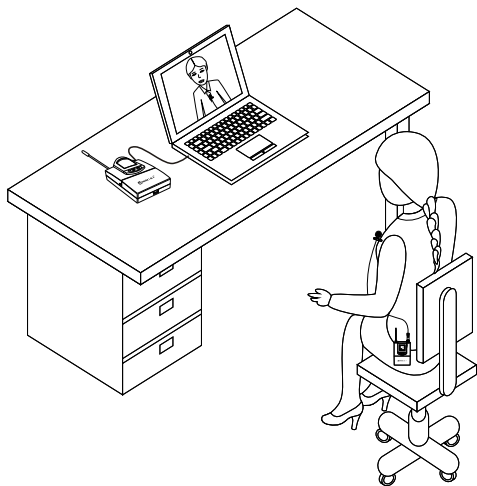
- 1.如果您需要拍攝不同的主題，請將麥克風插入發射器麥克風接口；
- 2.將電源POWER開關滑動到開的位置（LED指示燈將以綠色亮起）；
- 3.該裝置背面的腰帶夾將發射器夾在皮帶上，或者祇需將發射器放入口袋即可。

### 接收器

- 1.將接收器安裝到智能手機、平板電腦或電腦上；
  - 2.將另一個接頭插入智能手機的音頻插孔中；
  - 3.將耳機插入接收器“耳機”，用于監聽聲音；
  - 4.將電源POWER開關滑動到開的位置（LED指示燈將以綠色亮起）。
- 注意：請不要混淆插頭。



接收器與智能手機配合使用



接收器與電腦配合使用

如果丟失或損壞發射器或接收器，需要重新連接，請遵循以下步驟：

- 1.將發射器、接收器電源POWER開關滑動到開位置。
- 2.同時按下音量“▲、▼”鍵，直到屏幕通道閃爍。（腰包接收和發射）
- 3.短按音量“▲/▼”鍵，切換頻道。（腰包接收和發射）
- 4.手持發射器，可長按通道按鍵進行切換當前頻道。
- 5.將發射器、接收器設置為同一通道即可，信號通訊正常接收器綠燈長亮。

（如果發射器和接收器的LED指示燈保持綠色，則系統連接成功。否則，再次嘗試1-5步驟）

## 將麥克風與照相機、攝像機、錄音機和其他音頻、視頻錄制設備配合使用

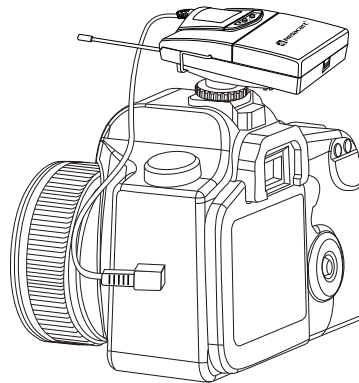
### 發射器

有關如何設置發射器，請參閱第28頁。

### 接收器

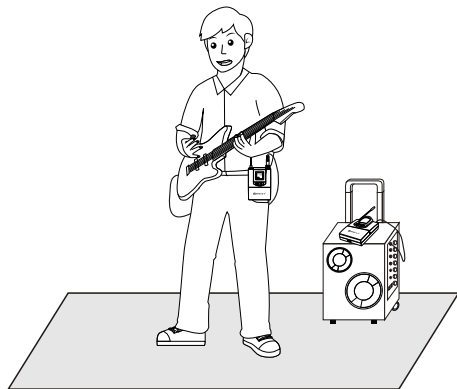
- 1.將接收器安裝到攝像機、照相機、錄音機其他音頻、視頻錄制設備配上；
- 2.將3.5mm插頭插入相機的音頻插孔；
- 3.將耳機插入接收器“耳機”以監控聲音；
- 4.將電源POWER開關滑動到開位置（LED指示燈將以綠色亮起）。

注意：請不要混淆插頭。



接收器與攝像機配合使用

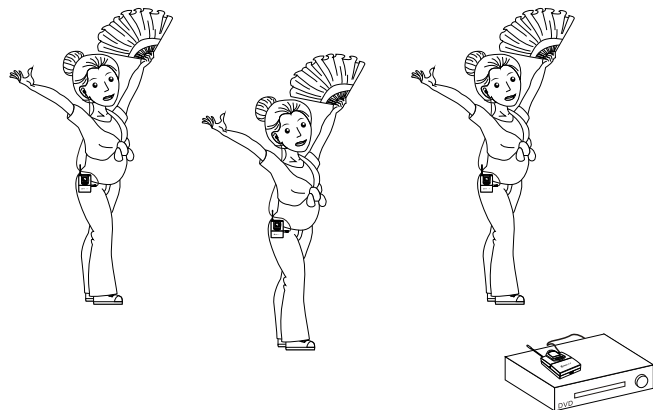
## 設備應用場合



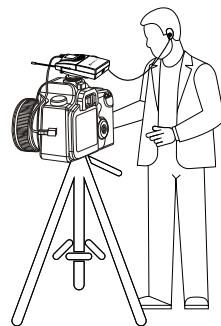
樂器演奏應用



人聲錄制



環保戶外娛樂應用



採訪應用

產品規格

CR-1 系統技術指標

RF 載波頻率範圍	470MHz~960MHz
頻率穩定度	0.005%
有效工作距離（理想環境）	≥80米
音頻壓擴	DSP數字音頻壓擴
音頻頻率響應	50Hz ~ 1600Hz ± 3dB
動態範圍	85 dB
信噪比（A計權）	80 dB
總諧波失真	≤1%,@1KHz
工作溫度範圍	-10℃ ~ +50℃

CR-1R 技術指標

接收帶寬	470MHz~960MHz
接收方式	超外差式
鏡像抑制	45dBm
射頻靈敏度	輸入10dBu時，S/N ≥45dB
靜噪調節	內置設定參數
頻率同步方式	手動式按鍵設置
最大輸出電平	LINE: 0.5Vpp ; Phone: 1Vpp
輸出電平調節範圍	30級可調，衰減式調節，每2dB步進
輸出阻抗	400Ω
供電方式	AA 1.5V x2
正常工作電流	3V 150mA
電池使用時間	≥8.5小時
外形尺寸（mm）	95 x 65 x23
淨重（不含電池）	100g

CR-1B 技術指標

載波帶寬	470MHz~960MHz
振蕩方式	PLL 頻率合成
發射功率	30mW
載波誤差	0.005%
諧波輻射	-32dBm
調制方式	FSK
標稱/最大頻偏	± 65KHz
最大輸入電平	250mV
輸入阻抗	2.2KΩ
輸入增益調節範圍	4級可調節設置，每3dB步進；
頻率設置	手動式按鍵設置
供電方式	AA 1.5V x2
正常工作電流	130mA
電池使用時間	≥11小時
外形尺寸（mm）	95 x 65 x23
淨重（不含電池）	100g

CR-1H 技術指標

載波帶寬	470MHz~960MHz
振蕩方式	PLL 頻率合成
發射功率	30mW
載波誤差	0.005%
諧波輻射	-32dBm
調制方式	FSK
標稱/最大頻偏	± 65KHz
最大輸入	250mV
輸入阻抗	2.2KΩ
頻率設置	手動式按鍵設置
供電方式	AA 1.5V x2
正常工作電流	130mA
電池使用時間	≥11小時
外形尺寸（mm）	50（φ）x233（長）
淨重（不含電池）	246g

## 產品清潔

用幹軟布清潔本產品部件的表面和接頭。切勿使用稀釋劑、苯、酒精或任何其它化學品，因為這些可能會損壞漆面。

## 重要安全

- 請仔細閱讀本安全提示和產品使用說明書。
- 妥善保管本安全提示和產品使用說明書。將設備交給他人使用時，務必附帶本安全提示和使用說明書。
- 請注意所有警告提示。
- 請遵守所有指令。
- 在錄音的時候，不要觸碰領夾麥克風、發射器和接收器；否則，會有噪聲產生。
- 不要將發射器和接收器放置于乾燥陰涼處。當講相機儲存在另一個封閉的地方時，不要將麥克風和相機放置在一起。
- 不要將發射器和接收器互換使用。
- 如果長時間不用麥克風，請將電池取下。

## 維護

- 不要用濕手操作。
- 請按照說明書的方式來清潔產品。
- 保護好產品防止被摔，在使用前，請讓專業電子維修人員檢查。
- 如果產品被損壞，或者你有聞到燒焦的味道：立即拔掉電池，不要自己維修，請讓專業人員維修。
- 請嚴格按照使用說明書來操作，保持設備在良好的環境下使用。
- 不要擅自拆開設備。

## 警告

- 將設備放置在小孩觸碰不到的地方。
- 不要使用漏電的電池，不要將電池投放火中。