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# E-IMAGE

## MR-300

### Dual channel UHF/PLL portable receiver



### Contact Information

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### Overview

2-channel portable receiver with high quality sound

2-channel portable receiver could offer the sound quality of digital audio processing combined with the reliability of analogue FM modulation. It also offers wide frequency coverage across a wide range of channels, with a choice of models to choose from. Easy-to-use features include a large display and small size to fit neatly on any size camcorder or DSLR camera automatic channel setting function, headphone output, USB connection for power supply and line input availability. The receiver also has external mic input for an additional wired microphone and 3 channel mixer function. This system provides superb transient response performance, and is suitable for all professional performance, in-ear monitor, interview, audio-visual programming, etc

- \* 2-channel portable receiver
- \* portable receiver is made of firm, durable and lightweight magnesium alloy. This product can be used in hard conditions.

\* High quality audio restoration  
The transient response performance between the transmitter and receiver could realize the high fidelity audio transmission.

\* External mic input for additional wired microphone  
This portable receiver has an external mic input connector for additional wired microphone, and it could freely distribute to output 1, output 2 or output 1 and 2 for 2 wireless microphones and 1 wired microphone.







\* Wide frequency coverage with choice of channels available  
the extra wide switching bandwidth covers a wide area, frequency range\*500-960MHz\*could be selected according to national wireless regulation)

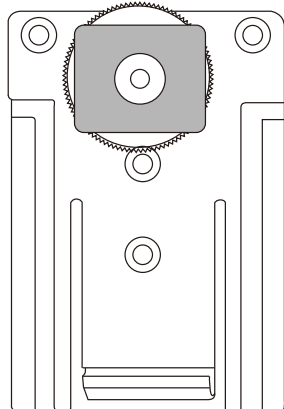
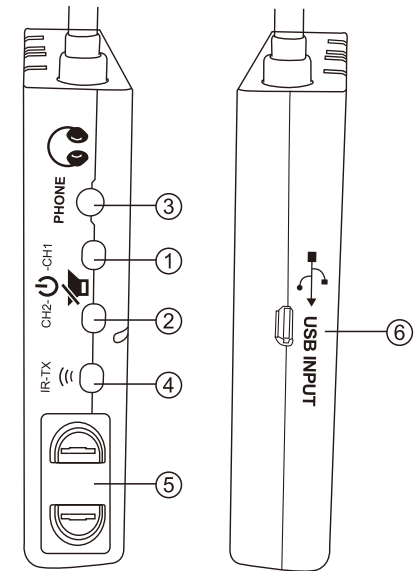
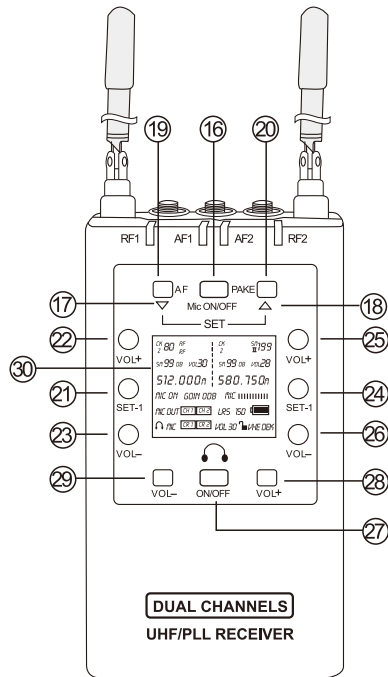
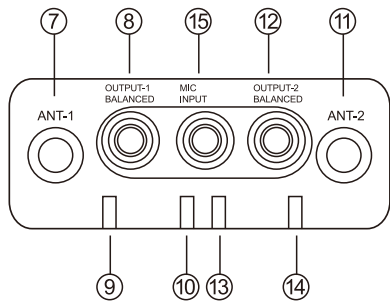
\* Large display and small size receiver  
The receiver features a large display for ease of use, while its small size means it fits neatly on any size camcorder or DSLR camera.

### Technical Specifications

Oscillator Type:	Crystal-controlled PLL Synthesizer
Frequency Range:	500-960MHz (depending on the country/region)
Antenna Type:	1/4 wave length wire
Frequency Response:	30Hz to 16kHz (typical)
S/N Ratio:	96dB (max deviation, A-weighted)
Distortion (T.H.D):	1% or less (-60dBV, 1kHz input)
Analog Input (Mic or Line) :	3-pole mini jack, unbalanced
Analog Input Level:	-50dBV ( ±12dB adjustable)
Analog Output:	3-pole mini jack, unbalanced
Analog Output Level:	-60dBV (at ± 5kHz deviation)
Analog Output Adjust Range :	-12dB to + 12dB
Headphone Output:	φ3.5mm (5/32 inch) stereo mini jack
Headphone Output Level:	5mW (at 16-0hm load)
Pilot Tone Signal:	32.768kHz, +ID MOD
Display:	LCD (with 128x64 lattice)
Power Requirements :	DC3.0V [2*1.5V (LR6) alkaline battery or DC 2.4V (2*AA 1.2v Mi-MH rechargeable battery, DC 5.0V (USB external input)
Current Consumption:	150mA (without headphone) / 230mA (with headphone in max volume)
Battery Operating Time:	6-10 hours for 2*AA (LR6) alkaline battery at 25°C(77°F)
Operating Temperature:	0°C to 50°C, 32°F to 122°F
Dimensions (L*H*W) :	66x110x22mm (without antenna)
Weight:	about 146g (without battery)

### Accessory

	<b>MJ-65 camera mounting rack</b>		<b>BATT-BOX-2 battery case(2*AA battery)</b>
	<b>L-1-J3 clip-on microphone (1 pc)</b>		<b>L-62 audio cable (2 pcs)</b>
	<b>USB cable (1pc)</b>		<b>H-6-D12 headset microphone(1 pc)</b>

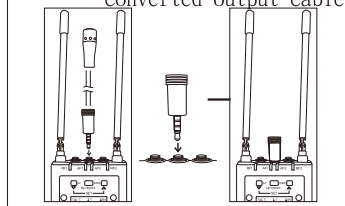


- 1/2. Channel 1/2 receiver power button (separate control).
3. Monitor earphone  $\phi 3.5\text{mm}$  socket; dual channel output:  $2 \times 100\text{mw}$ .
4. Channel 1 and channel 2 infrared frequency transmission window (with indicator light)
5. Battery case: with 2 \* AA 1.5V alkaline battery or 1.2V  $\geq 1800\text{mAh}$  Ni-MH rechargeable batteries
6. USB INPUT external battery input 5V-1000mA: power supply for device or recharge for Ni-MH rechargeable batteries.
- 7/11. Channel 1/2 receiver with external  $1/4\lambda$  wavelength antenna (adjustable Angle) ANT-1/ANT-2.
- 8/12. Channel 1/2 receiver AF balanced output  $\phi 3.5\text{mm}$  socket: OUPUT BALANCED1/2.
- 9/14. Channel 1/2 receiver RF signal reception indicator light RF1/RF2.
- 10/13. Channel 1/2 receiver AF signal reception indicator light AF1/AF2.
15. Mic input (or line input)  $\phi 3.5\text{mm}$  socket, inside with power DC 5V-10mA for condenser microphone.
- 16/17/18. Microphone function setting: MIC SET, down button " $\Delta$ " , and up button " $\triangle$ " .
- 19/20. Microphone audio frequency indicator light "AF" /audio frequency peak indicator light "PEAK" .
- 21/22/23. Channel 1 receiver function setting "SET-1" / volumn increase "VOL+" and function setting up button/ volume down "VOL-" and function setting down button.
- 24/25/26. Channel 2 receiver function setting "SET-2" / volumn increase "VOL+" function setting up button/ volume down "VOL-" and function setting down button.
- 27/28/29. Monitor earphone function setting/ volumn increase "VOL+" function setting up button/ volume down "VOL-" and function setting down button.
30. LCD: display the menu and setting (Page x) .
31. Receiver battery case mounting port.
32. 0K-8802R steel clip.

## Install accessories to portable dual channels tuner

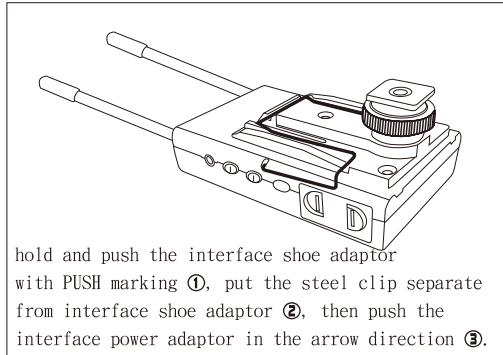
Connect the transform cable to the OUTPUT connector

example: OK-8802R with XLR-BMP converted output cable



turn around and lock connector for strong connection

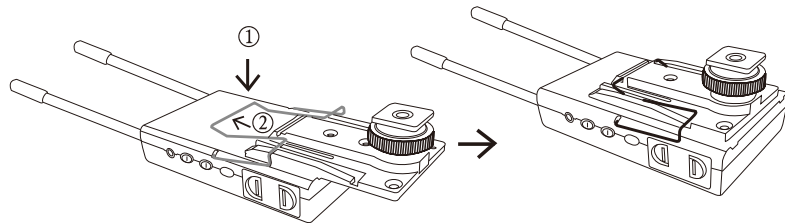
Remove the interface shoe adaptor



hold and push the interface shoe adaptor with PUSH marking ①, put the steel clip separate from interface shoe adaptor ②, then push the interface power adaptor in the arrow direction ③.

## Install steel clip

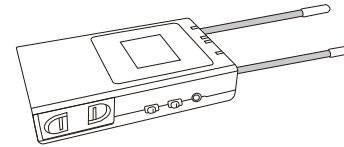
Please install the belt clip before installing the hot boot adapter  
 Note (black background rendering)  
 If you intend to install a hot boot adapter, reverse the strap holder.



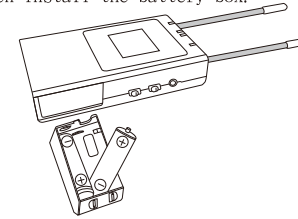
hold and push the interface shoe adaptor with PUSH marking ①, put the steel clip separate from interface shoe adaptor ②, then push the interface power adaptor in the arrow direction ③.

## Battery installation

1. press the clasp toward middle (as picture shown), and pull out the battery box.



2. Put 2\*AA battery in correct polarity then install the battery box.



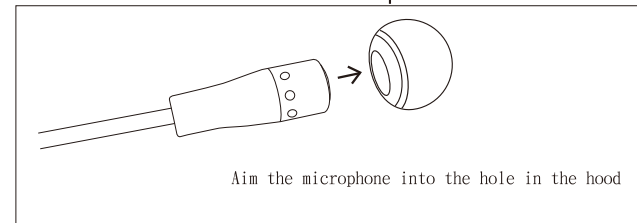
## Attention

- When using with different kinds of batteries, it may could not show the battery levels. If using other batteries except AA alkaline batteries, please use the BATTERY function to choose the battery style.
  - If you want to use the transmitter in long time, please using the new batteries.
  - It also consume the battery power when the receiver turn off. Please take out the batteries when you not use the receiver in long time.
- About the BATTERY function setting details, please check page x.

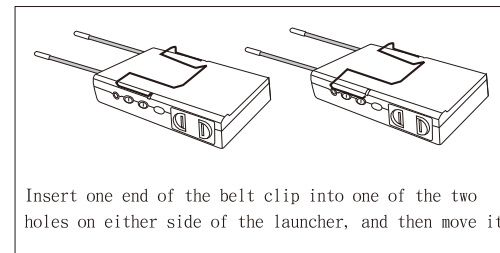
## Battery Using Caution:

- Improper battery handling may cause leakage or explosion. Please follow the below instructions.
- Install the batteries in correct polarity +/-.
  - Make sure to use two new batteries at the same time.
  - Do not use different style of batteries and mixed with old and new batteries at the same time.
  - Alkaline batteries could not be rechargeable.
  - When the equipment is not used for a long time, the battery should be taken out. To prevent leakage of electrolyte after the battery decays, causing damage to the device.

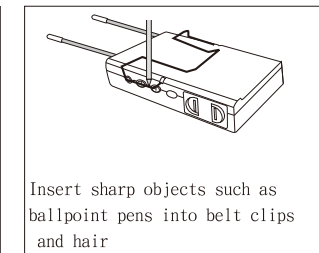
## Install the windshield into the microphone



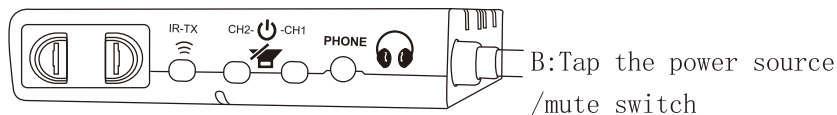
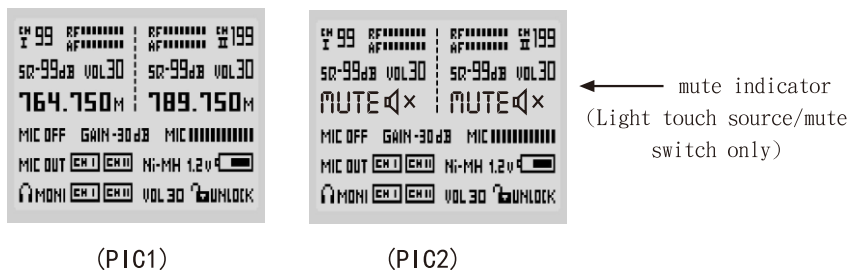
## Install steel clip



## Remove steel clip



一. Display interface and operation instructions

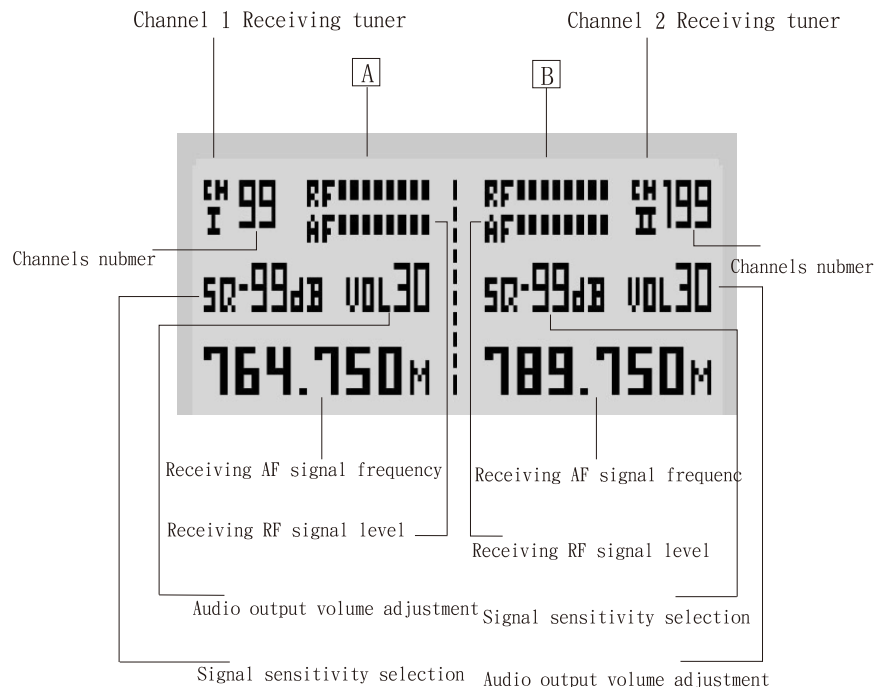


Power switch: A: Mechanical power switch and B: Tap the power source /mute switch

A: channel 1 and channel 2 is controlled by separated power button: ON/OFF . LCD A/B display content corresponds to 1/2 channel receiver power on/off. The power of this device turn off base on the last channel turn off.

B: Long press 1 second for power switch operation, short press 0.3 second for mute switch. The CH1 and CH2 receivers are powered by separate power switches. Control. The mute switch can be operated by pressing any key of CH1 or CH2 short: mute/mute. (As shown in PIC 2)

二. 1/2 channel receiving tuner display setting



- 1-1. Long press 21 "SET-1" "IR" /24 "SET-2" "IR" 1s or longer time, choose "sync-x--x", IR frequency transmission window in red light, and transmit IR about 20s. Put the transmitter (turn on) IR receiving window face to it, that the frequency setting is done
- 1-2. Short press 22/25 "VOL+" or 23/26 "VOL-" button 0.3s, to set up or down for the AF output volumn. (VOL level has 3 levels from 00 to 30) , long press 22/25 "VOL+" or 23/26 "VOL-" button 1s or longer time. The audio output volume can be raised or lowered quickly and continuously.
2. Quickly press 21 "SET-1" /25 "SET-2" once, shows CH 00-99/CH 100-199, then press + or - button could set the channel and frequency.
3. Quickly press 21 "SET-1" /24 "SET-2" twice, setting the receiver sensitivity, then press + or - button, there are 9 levels from -55dB~-99dB.
4. Quickly press 21 "SET-1" /24 "SET-2" three times into setting audio output level VOL: then press + or - button to choose 30 levels from 00~30.
5. Quickly press 21 "SET-1" /24 "SET-2" four times into frequency setting, then press + or - button, to select the clean frequency automatically and lock.

### 三、Microphone display interface C D E and operation

3-1.Quick setting for microphone audio output: short press 16 “MIC SET” button 0.3s, to choose microphone AF output “MIC OUT” coupling channel 1 “CH 1” and channel 2 “CH 2”. The four states of audio output: first is “CH1” coupling; second is “CH2” coupling; third is “CH 1” and “CH 2” coupling at the same time, fourth is “CH 1”and “CH2”coupling output at the same time.



3-2.Quick setting for microphone volumn (12 steps)

\*short press 17 “VOL-” or 18 “VOL+” button 3s, reduce or raise the microphone volume at one level.

\*long press 17 “VOL-” or 18 “VOL+” button more than 1s, reduce or increase the volume of the microphone with a quick continuous steps.

3-3.Display interface CDE and setting:

Long press 16 “MIC SET” button once, shows “MIC OFF” or “MIC ON” flashing, then short press 18 “VOL+” button to set microphone on “MIC ON” and short press 17 “VOL-” button to set microphone off “MIC OFF” .

Short press 16 “MIC SET” button twice, shows “GAIN-40dB” or “GAIN-30dB” or “GAIN-20dB” or “GAIN-10dB” or “GAIN-00dB”, there are 5 levels of microphone gain from small to large. Short press 18 “VOL+” button to increase the gain (maximum is 0dB). Short press 17 “VOL-” to reduce the gain (minimum is -40dB) .

Short press 16 “MIC SET” button three times, shows “MIC 111111” . There are 12 levels for microphone output volume.Short press or long press 18 “VOL+” button, corresponding step by step or fast continuous increase volume. Short press or long press 17 “VOL-” button, corresponding step by step or fast continuous reduce volume.

Short press 16 “MIC SET” button four times, shows “MIC OUT” “CH1” “CH2” microphone audio output. Coupling channel 1 “CH1” and channel 2 “CH2” , the 4 states of audio output. Short press 18 “VOL+” or 17 “VOL-” , to choose: 1.MIC OUT “CH1” “ ” to turn on channel 1 separately, 2.MIC OUT “ ” “CH2” to turn on channel 2 separately, 3.MIC OUT “CH1” “CH2” to turn on channel 1 and 2 at the same time, 4.MIC OUT “ ” “ ” turn off channel 1 and 2 at the same time.

Short press 16 “MIC-SET” button five times, display interface “D” : “NI-MH 1.2V--” AA 1.2V Ni-MH rechargeable battery or “LR6 1.5V--” AA 1.5V alkaline battery, the selection and setting of battery style provide more accurate battery power instructions.

Short press 16 “MIC SET” button, display interface “E” : “UNLOCK” setting button (open using) or “LOCK” setting button (no operation is allowed, except for the 2 buttons of quick infrared frequency setting “SET-1 IR” “SET-2 IR” and 3 buttons of monitor earphone “PHONE SET” “VOL-” “VOL+” ) .

### 四、Earphone display of [E]



1.Fast press [PHONE SET] 0.3S earphone key, Select the following four types of headphones to monitor the sound channel:

- 一、[CH I] [ ] 1channel receive ; 二、[ ] [CH2] 2channel receive
- 三、[CH I] [CH2] 1channel and 2channel receive at the same time ;
- 四、[ ] [ ] 1channel and 2 channel close at the same time.

2.Press short or long, respectively ⑳ [VOL+] key earphone audio (30class) Increase in step or in rapid succession (the max is VOL 30) ;short or long press ㉑ [VOL-] key , The volume of the headset is reduced step by step or continuously fast (The min is VOL 0) .