

## Equipment list

Equipment	Two channels (standard version)	Two channels (Diversity version)	One channel
Receiver	1	1	1
transmitter	2	2	1
Antenna	2	4	2
Power adapter	1	1	1
6.3 audio line	1	1	1
Bracket	2	2	
Connection board			
Manual	1	1	1

## Statement

Due to the continuous improvement of products the technical parameters in this manual are modified, without prior notice.

If you have any questions, please tell us, we will glad to answer your questions and comments.



After the receiver is scrapped, please send it to the public collecting station or the waste recycling center.

## CATALOGVE

### RECEIVER

#### Product overview

Product overview (Standard Edition) .....	2
Product overview (True diversity Edition) .....	3
Product overview (True diversity Edition) .....	4
The receiver display overview .....	5

#### Function keys

Manual / FM .....	6
The system automatically selecting .....	6
Infrared frequency .....	7
The frequency lock .....	7
The received power .....	7

BODYPACK TRANSMITTER .....	8
----------------------------	---

### HANDHELD MICROPHONE

#### Product overview

The various parts of the handheld microphone .....	9
Battery installation .....	10
Microphone operation .....	11
Simultaneous adjustment of transmitter and receiver .....	12

### THE PREPARATION BEFORE THE RECEIVER IS INSTALLED

#### IN THE CABINET

##### Remove the screw / unload angle corner screws

Remove equipment feet .....	13
Bracket mounting a receiver (two channels) .....	13
Bracket mounting a receiver ( one channel) .....	14
Bracket mounting two receivers (one channel) .....	14

CLEANING AND MAINTENANCE OF THE RECEIVER .....	15
--	----

TIPS AND TRICKS .....	15
-----------------------	----

WHEN THERE IS A FAULT .....	16
-----------------------------	----

### TECHNICAL SPECIFICATIONS

Receiver technical parameters .....	17
Transmitter technical parameters .....	18

PLUG CONFIGURATION .....	18
--------------------------	----

IMPORTANT SAFETY TIPS .....	19
-----------------------------	----

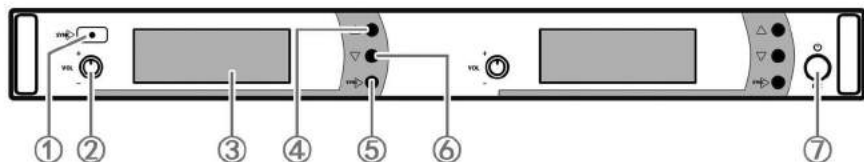
EQUIPMENT LIST .....	20
----------------------	----

STATEMENT .....	20
-----------------	----

## Product overview (Standard Edition)

### The front panel

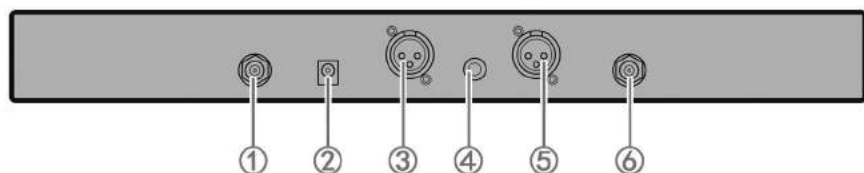
#### ▲ Two channels receiver front panel



- \* Infrared frequency window
- \* Volume control knob
- \* Display
- \* "up" function keys (short by about upward channel, long by 1 second system automatic frequency selection)
- \* "sync" button (short click the infrared frequency, long press 1 second into the wireless receiving power modulation)
- \* "down" function keys (short press downward channel, long press 1 second locking frequency)
- \* Power switch button

### The Back panel

#### ▲ Two channels receiver back panel



- \* Antenna interface (B) ant II
- \* Connected power adapter connection jack (DC) in
- \* Audio output jack XLR-3, AF out BAL (B)
- \* Audio output of 6.3 mm jack, AF out UNBAL
- \* Audio output jack XLR-3, AF out BAL (A)
- \* Antenna interface (A) ant I

## Important safety tips


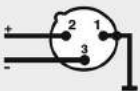

- Please read the instructions carefully.
- Please keep the instructions. Please always use this product together with instructions delivered to other users.
- Please note that all warnings and instructions in compliance with the use of all
- Only in the rear can disconnect the power supply to clean equipment. Please use a clean soft cloth to clean the equipment.
- All maintenance work must be carried out by specially trained maintenance personnel.  
When the equipment is damaged in any form, when the liquid or foreign body into the equipment or equipment by the rain, can not work normally or shutdown, must carry out maintenance work.
- Warning: please do not use this device in the water area. Do not use the product in the rain or humid environment. It poses a risk of fire and electric shock. Please do not use the container with liquid placed on the device.
- Please use only supporting the provision of external power adapter.
- If the following conditions, the external power adapter is drawn from the socket,
  - Disconnect the equipment with power
  - A storm
  - A long time do not use equipment.
- Can only be connected to external power adapter and "technical parameters" (17 page) chapters required supply data consistent.
- Note that external power adapter must good quality
- In good condition and stored in an easy to find place
- Tightly inserted in the socket
- Use only within the permissible temperature range
- Not covered by other objects, or a long time by sunlight, to prevent high temperature see "technical parameters" (17 page).
- Please do not cover the vents. Please follow the instructions for use on equipment.
- Do not use this device placed the heat source, such as radiator, oven or other device (including the amplifier)
- Please use the additional equipment / accessories that are recommended by the company.

## Technical parameter

### Transmitter technical parameters

Carrier frequency:	740-780MHz
Oscillation modes:	Phase locked frequency synthesizer
Output power:	10mW
Frequency response:	50Hz~18KHz
Input sound pressure of:	130 dB SPL
Microphone:	Dynamic
Battery:	AA X 2
Current consumption:	<110 mA
Weight:	About 400 g
Size:	About 270 (long) x 50 (diameter) mm

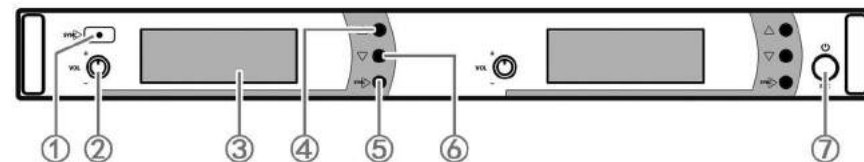
## Plug configuration

audio	other	
6.3 mm Single Channel plug, unbalanced	XLR-3 plug, with hole head, balanced	DC plug, used for power supply
		

## Product overview (True diversity Edition)

### The front panel

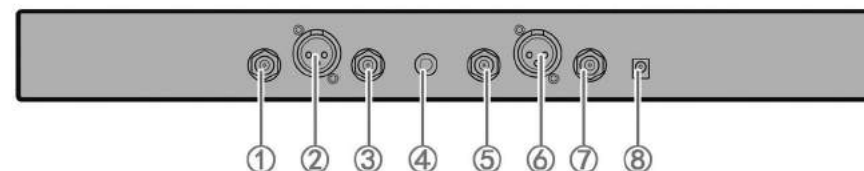
#### ▲ Two channels receiver front panel



- \* Infrared frequency window
- \* Volume control knob
- \* Display
- \* "up" function keys (short by about upward channel, long by 1 second system automatic frequency selection)
- \* "sync" button (short click the infrared frequency, long press 1 second into the wireless receiving power modulation)
- \* "down" function keys (short press downward channel, long press 1 second locking frequency)
- \* power switch button

### The Back panel

#### ▲ Two channels' receiver back panel

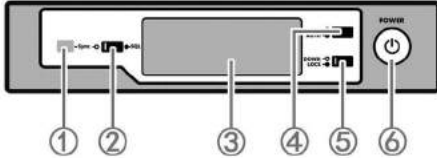


- \* Antenna interface (B) ANT II
- \* Audio output of XLR-3 jack, AF out BAL(B)
- \* Antenna interface (A) ANT II
- \* Audio output of 6.3 mm jack, AF out UNBAL
- \* Antenna interface (B) ANT I
- \* Audio output jack XLR-3, AF out BAL(A)
- \* Antenna interface (A) ANT I
- \* Connected to the power adapter connector (DC in)

## Product overview (True diversity Edition)

### The front panel

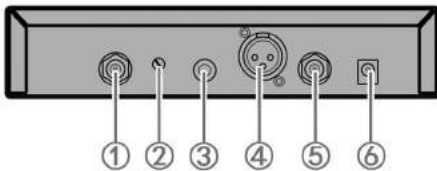
#### ▲ one channel receiver front panel



- \* Infrared frequency window
- \* "sync" button (short click the infrared frequency, long press 1 second into wireless receiving power modulation)
- \* Display
- \* "up" function keys (short press to increase channel, long by 1 second system automatic frequency selection)
- \* "down" function keys (short by about FM down the road, long press 1 second locking frequency)
- \* Power switch button

### Back panel

#### ▲ One channel receiver back panel




- \* Antenna interface (B), ANT I
- \* volume control knob
- \* Audio output of 6.3 mm jack, AF out UNBAL
- \* Audio output jack XLR-3, AF out BAL
- \* Antenna interface (A) ANT I
- \* Connected power adapter connector (DC in)

## Technical specifications

### Receiver technical parameters

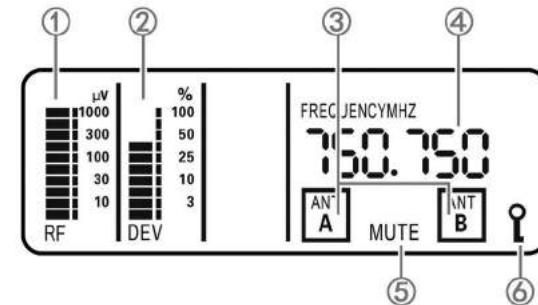
Chassis specifications:	Standard 1U case
Group of channels:	Dual channel , Single channel
Carrier frequency:	740-780MHz (other bands can be customized)
Modulation:	Broadband modulation
Oscillation mode:	Phase locked frequency synthesizer
Sensitivity:	Offset degree is equal to 25KHz, the 6dB V,S/N>60dB
Offset:	*45kHz
Band width:	24MHz
S/N ratio:	>100 dB
T.H.D.:	<0.5% @ 1 KHz
Frequency response:	50Hz~18kHz + 3dB,
Output voltage:	-20dBV/100 ohm balanced -4dBV/5K ohm, Unbalanced
Output socket:	XLR balanced and unbalanced socket *6.3
Temperature range of	-10 *to +55*
AC power supply :	0.5-1A, 12 -15V DC
Weight:	
Standard Version	Two channels about 1800 g
Diversity version	Two channels about 2200 g
Diversity version	One channel about 1050 g
Size :	
Standard Version	Two channels about 420 (wide) x 45 (high) x 179 (deep) mm
Diversity version	Two channels about 420 (wide) x 45 (high) X 215 (deep) mm
Diversity version	One channel about 210 (wide) x 45 (high) x 198 (deep) mm

## When there is a fault






Problems	Possible reasons	Exclusion method
Cannot be FM and screen display "  "	Frequency lock is switched on	Long press "down" button to unlock the function
No display of the running state	Without switching on the power	Connection of external power adapter
No receiving signal	Transmitter and receiver using different channels.	The transmitter and receiver are adjusted to the same channel, using the synchronous adjustment function (twelfth pages). Shorten the distance between the receiving antenna and the transmitter
Receiving signal exists, but no audio signal	The output level of the volume level off	Raised volume level
audio signal distortion	Receiver is too high to have the same frequency transmitter	Lowering the volume level
signal noise	Have the extra same frequency transmitter	Replace receiver frequency (6 pages), RE sync transmitter frequency (12 pages)
The actual use of distance is shorter than the distance between the specified parameter	with obstacles or electromagnetic interference.	Remove or avoid obstacles and electromagnetic interference

## The receiver display overview

### ▲ Introduction to display screen



- \* The radio signal level
- \* audio level
- \* Antenna branch
- \* frequency and channel
- \* "MUTE"
- \* Frequency lock

	Receiving signal's strength
	Audio volume
	"A" display antenna input A activation
	"B" display antenna input B activation
MUTE	Receive frequency and channel number
	When "mute" display to mute
	Lock can prevent frequency transform

## Function keys

Function keys to use before the notice (must pay attention to the length of the press keys)

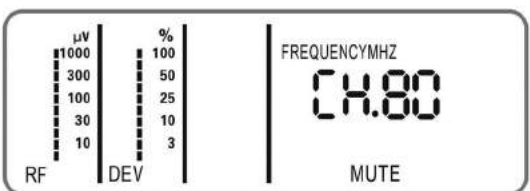
**i** "Up", "down", "Sync" three function keys are dual function keys. The "up" function button is short by no more than 1 second for the basic function, the length of more than 1 sec after the automatic sweep function.

"Down" button is not more than one second for short press down the basic function, length frequency locking button by more than 1.

The "Sync" function button is short by no more than 1 second for the infrared to the frequency function, the length of the receiver after more than 1 second to debug.

## Manual / FM

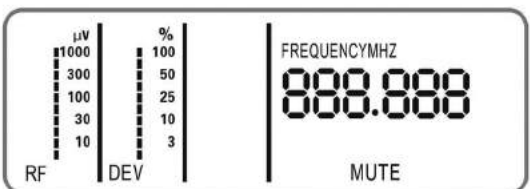
▲ "up", "down" button



When the press "up", "down" function keys, the system enters the manual FM mode. After entering the FM mode, through the "up", "down" function button to select the frequency channel.

## The system automatically selecting

▲ "UP" function button



Long press "up" function button 1 second, the system automatically sweep frequency, the number of the screen scrolling. Automatic sweep time up to 10 seconds, during the period not to do other operations, 10 seconds after the system to elect the frequency.

## Cleaning and maintenance of the receiver

Liquid possible damage electronic device of the receiver!

**i** Liquid may penetrate into the enclosure and cause short circuit of the electronic device.

- ▲ [Receiver must not come into contact with any liquid.]
- ▲ Before start cleaning, please disconnect the device power.
- ▲ Regularly with a soft cloth to clean the equipment. Never allow use solvents or cleaning agents.

## Tips and tricks

... in order to obtain the best receiver -

- Transmitter effective signal range depending on the working environment and conditions. May be between 10 m and 100 m.
- Transmitting and receiving antenna should not be obstacles blocking the line of sight.
- When the poor reception conditions should be in receiver through the antenna cable connecting two separated antennas.
- Transmitting and receiving antennas should keep 5 m minimum distance. This can avoid receiver of radio signal overshoot. - between receiving antenna and steel or concrete wall should ensure the minimum spacing of 50 cm and with V shaped antenna calibration.

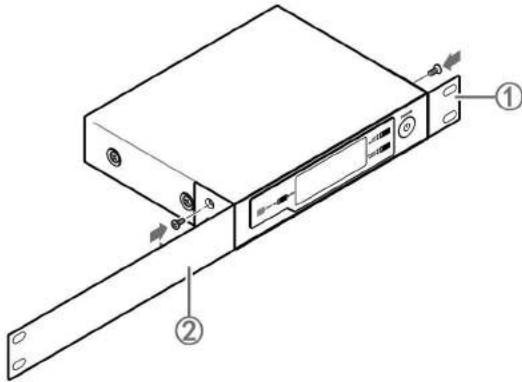
... In the multi channel device operation

- When using multiple transmitters, should avoid the transmitter spacing is too short to form a transmission line interference. The transmitters to maintain at least 20 cm spacing.

## The preparation before the receiver is installed in the cabinet

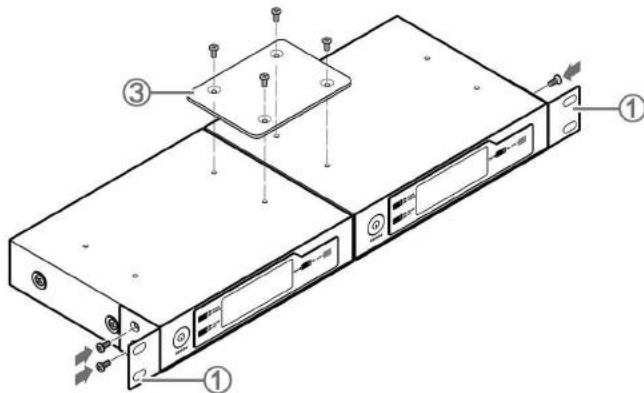
Bracket mounting a receiver ( one channel)

- ▲ Choose one short and one long corner, mounting screw removed.



Bracket mounting two receivers (one channel)

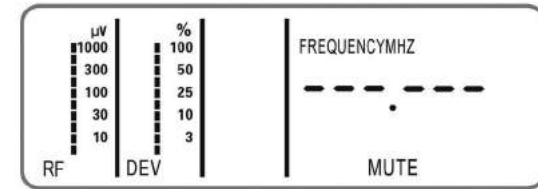
- ▲ The two receiver face down and discharged to the surface of a flat.



- ▲ Those with 4 screws fixed connection plate 3.
- ▲ Choose two short bracket, mounting screw removed.

## Infrared frequency

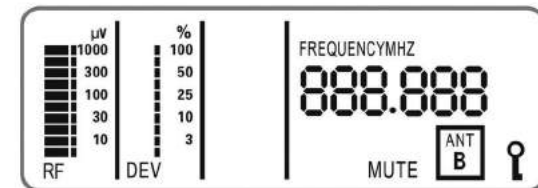
- ▲ "Sync" function button



Short press the button "Sync" , display "----" symbol, it indicates the system is infrared frequency.

## The frequency lock

- ▲ "down" button



Long press "down" function keys after 1 second, the screen appears the lock icon said system frequency is locked.  
Frequency locked, all the FM frequency modulation button related to failure.  
Long again, according to the "down" function button for 1 second, the lock icon disappears. This can be FM operation.

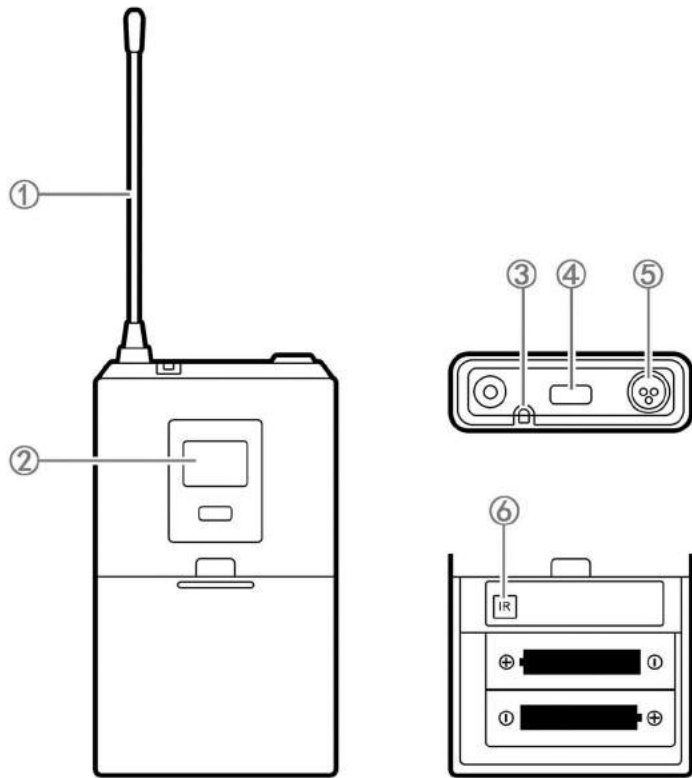
## The received power

- ▲ "Sync" function button



Long press the "sync" function button a second system into the received power debug mode.  
Through "up" "down" function keys to adjust the size of power.  
With smaller values received power is small, value the greater the received power is larger.

## Bodypack transmitter:



- ① Antenna
- ② Display screen
- ③ Power indicator light
- ④ Switch
- ⑤ Condenser microphone head socket
- ⑥ Infrared frequency window

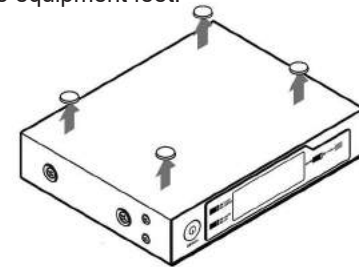
## The preparation before the receiver is installed in the cabinet

Remove the screw / unload angle corner screws.



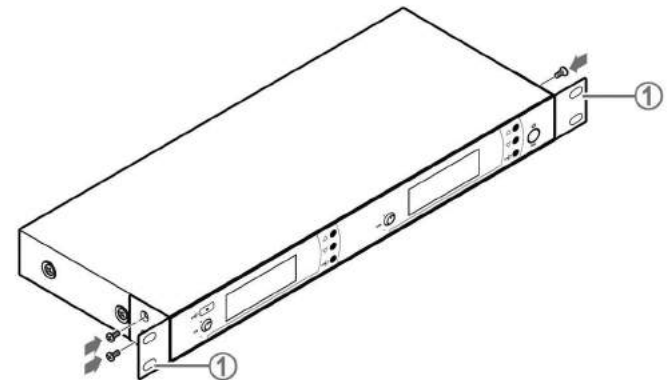
▲ Remove equipment feet

**i** If you want to make the receiver fitted to 19 inch bracket, please don't paste equipment feet.



Bracket mounting a receiver (two channels)

▲ The choice of two short bracket, mounting screw removed.

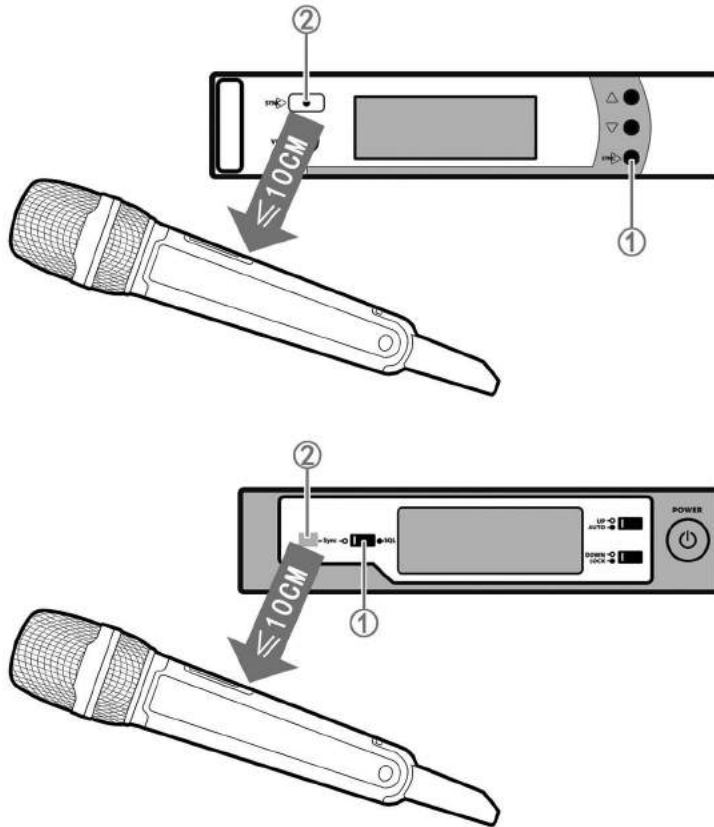




## Simultaneous adjustment of transmitter and receiver

The transmitter and receiver are synchronized by infrared interface.

- ▲ Open the transmitter and the receiver.



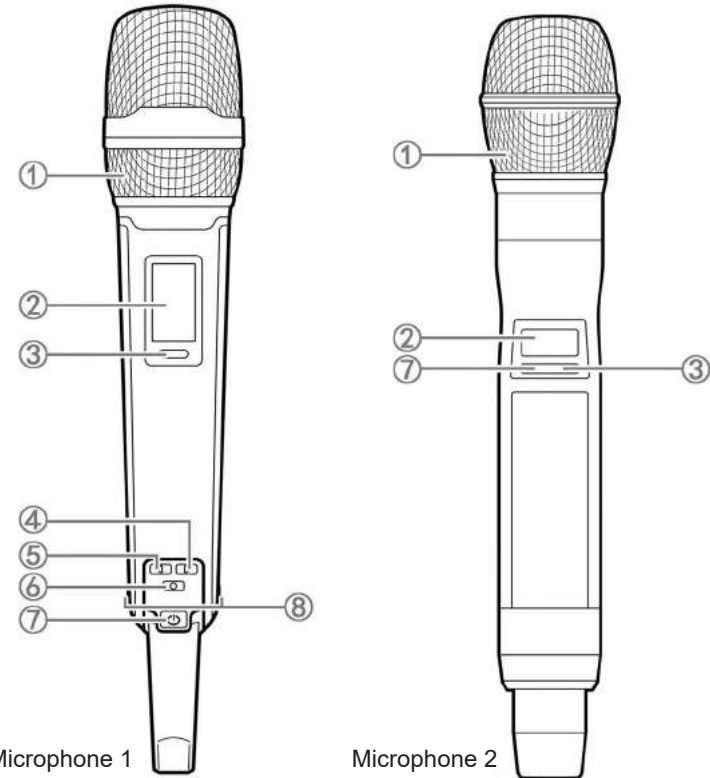
- ▲ In the receiver pressed the button "sync" (1), the receiver screen display "----".
- ▲ Put the infrared frequency window of the transmitter in front of the infrared frequency window of the receiver. Data is transmitted to the transmitter. When the end of the data transmission, receiver screen "----" disappears, then the receiver returns to the current standard display state.

**i** If failure the screen display "----" remains no quit, then press "sync", and then repeat the above operation.

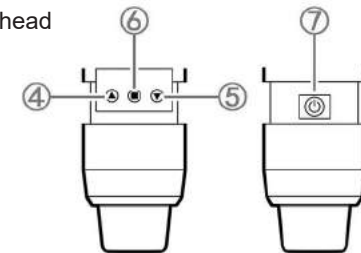
## Product overview

Handheld microphone

- ▲ The various parts of the handheld microphone



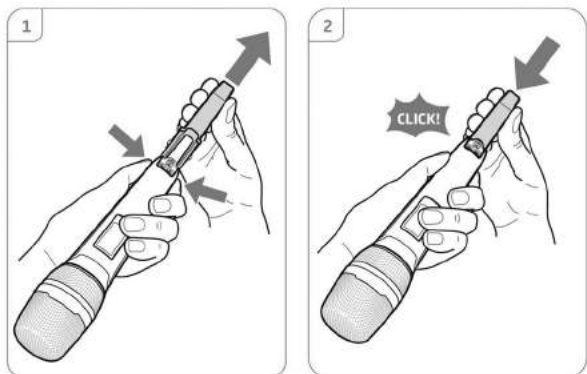
- \* Can replaceable the microphone head
- \* Display screen
- \* Infrared to the frequency window
- \* ▶ Up button
- \* ◀ Down button
- \* ⏻ Setting button
- \* ⏻ Power switch button
- \* Battery box unlock button



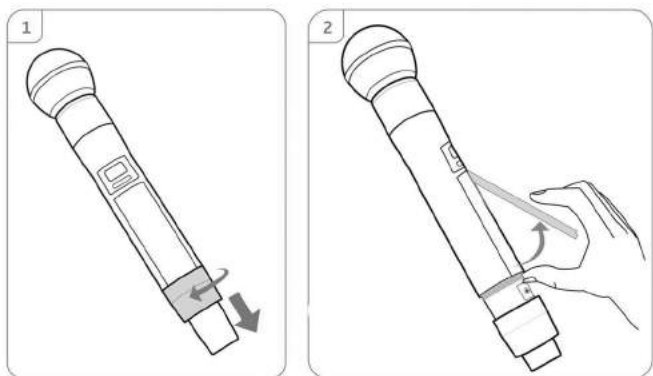
## Battery installation

Insert the battery into the battery box

- ▲ "Insert the battery (see chart). When inserted, please pay attention to the polarity of the batteries.



Microphone 1



Microphone 2

- i** Confirm fully off the microphone power supply after removing the battery box, to avoid the sudden power loss of the system. The normal operation of the microphone frequency is saved will not be lost.

- i** Use the battery for the AA 5 battery. Please use high-quality batteries, do not use inferior batteries to avoid damage to the microphone.

## Microphone operation

Handheld microphone screen

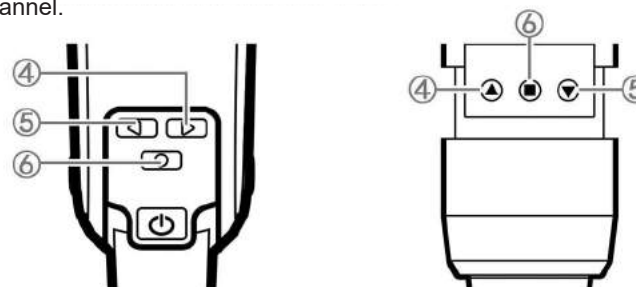
- ▲ Display the battery and the use of radio frequency.



- i** When the battery power remaining grid, should pay attention to the use of the time, and replace the battery in time. When the screen display **LOW BAT** that power is too low, the battery must be replaced. When the screen display **LOCK**, upper **◀** and lower **▶** function keys locking.

Handheld microphone function keys

- ▲ Through 4 **▶** 5 **◀** function keys selected frequency channel, and then press the function 6 **⏻** key to determine the selected frequency channel.



- ▲ Lock FM function keys: long press 6 **⏻** the function button until the screen display **LOCK**, on the function buttons are locked failure, this microphone can not be manually FM.  
Unlock FM function keys: long press 6 **⏻** the function button until the screen disappeared **LOCK**, under the function key function recovery. Then the microphone can manually FM.

- i** Under normal circumstances using infrared on frequency, the operation is simple and convenient (for details, see page 12).