

**WIRELESS
MICROPHONE
SYSTEM**

EXCELLENT



USER MANUAL

The Pursuit Of Perfect Sound

Reliable transmission and excellent sound quality

CATALOG

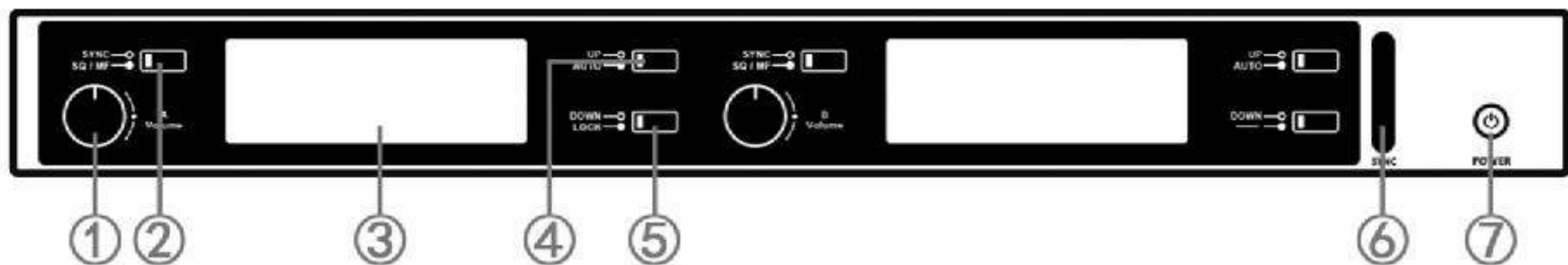
RECEIVER

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Product overview (Standard Edition)

The front panel

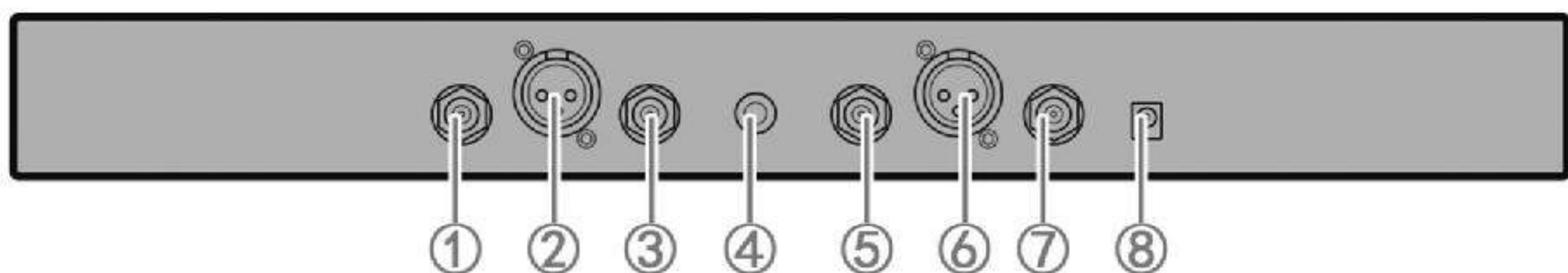
▲ Two channels receiver front panel



- ① Volume control knob
- ② "SYNC" button
Infrared to frequency: short click on infrared frequency
SQ mode: long press 1 second into SQ mode, wireless receive power modulation
MF mode: again in SQ mode, enter the MF advanced manual FM mode
- ③ Display
- ④ "UP" function button (short press up adjust the channel, long press 1 second system automatic frequency search)
- ⑤ "DOWN" function button (short press down adjust channel, long press 1 second lock frequency)
- ⑥ Infrared frequency window
- ⑦ Power switch button

The Back panel

▲ Two channels receiver back panel

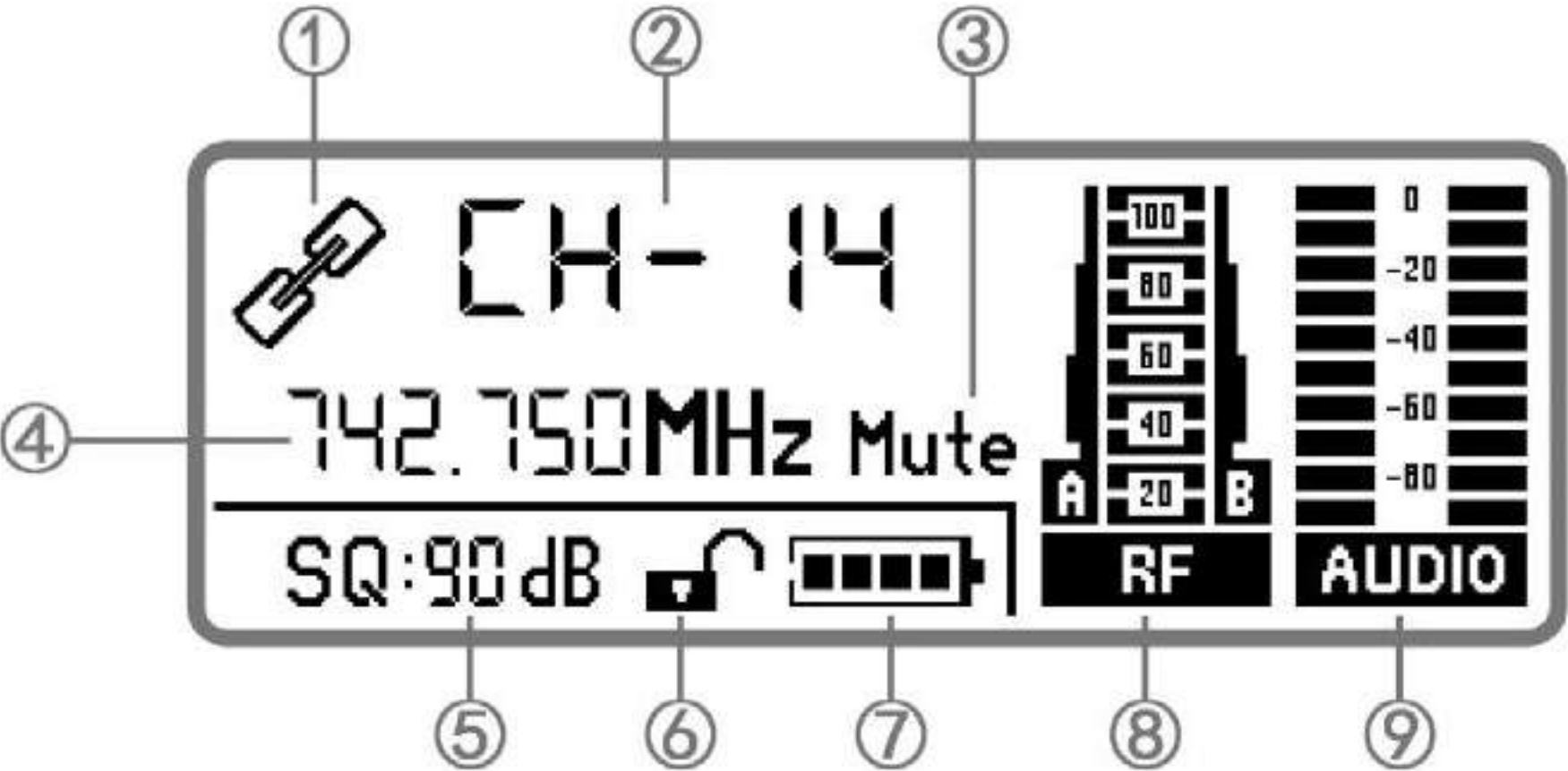









- ① Antenna interface (B), ANT, II
- ② Audio output of the XLR-3 jack, symmetrical output (AF OUT BAL) (B)
- ③ Antenna interface (A), ANT, II
- ④ Audio output of the 6.3 mm jack, asymmetrical output (AF OUT UNBAL)
- ⑤ Antenna interface (B), ANT, I
- ⑥ Audio output of the XLR-3 jack, symmetrical output (AF OUT BAL) (A)
- ⑦ Antenna interface (A), ANT, I
- ⑧ External power adapter socket (DC IN)

The receiver display overview

Digital pilot diversity version

The display marked introduction



① Transmitter connection status	 Transmitter and receiver connections are successfully displayed on chains
② channel	Channel number
③ "MUTE"	Mute when "MUTE" is displayed
④ Frequency	Receiving frequency
⑤ SQ	Receiver sensitivity
⑥ lock Key	 Locked receiver button not available
⑦ Transmitter battery information	 About 100%
	 About 75%
	 About 50%
	 About 25%
⑧ Radio signal level Antenna branch	 The battery is running out. Please replace the battery
	The strength of the received radio signals When the "A" is displayed, the antenna input A is activated When the "B" is displayed, the antenna input B is activated
⑨ Audio level	Display transmitter audio input size

Function button usage

Note before the function button is used (note the time of the press button)

"UP", "DOWN", "SYNC", these three function keys are multifunctional keys.

"UP" function button short press no more than 1 second for upward basic function, long press more than 1 second after "AUTO" automatic sweep frequency function.

"DOWN" function buttons short press no more than 1 second for the basic function down, long press more than 1 second after the "LOCK" frequency.

The "SYNC" button press is not more than one second for infrared frequency function, long press 1 second for "SQ" the receiver sensitivity. In SQ mode, and then click one time to enter the MF advanced manual FM mode, through the "UP" and "DOWN" buttons to adjust, the frequency interval is 0.05MHz.

Manual mode

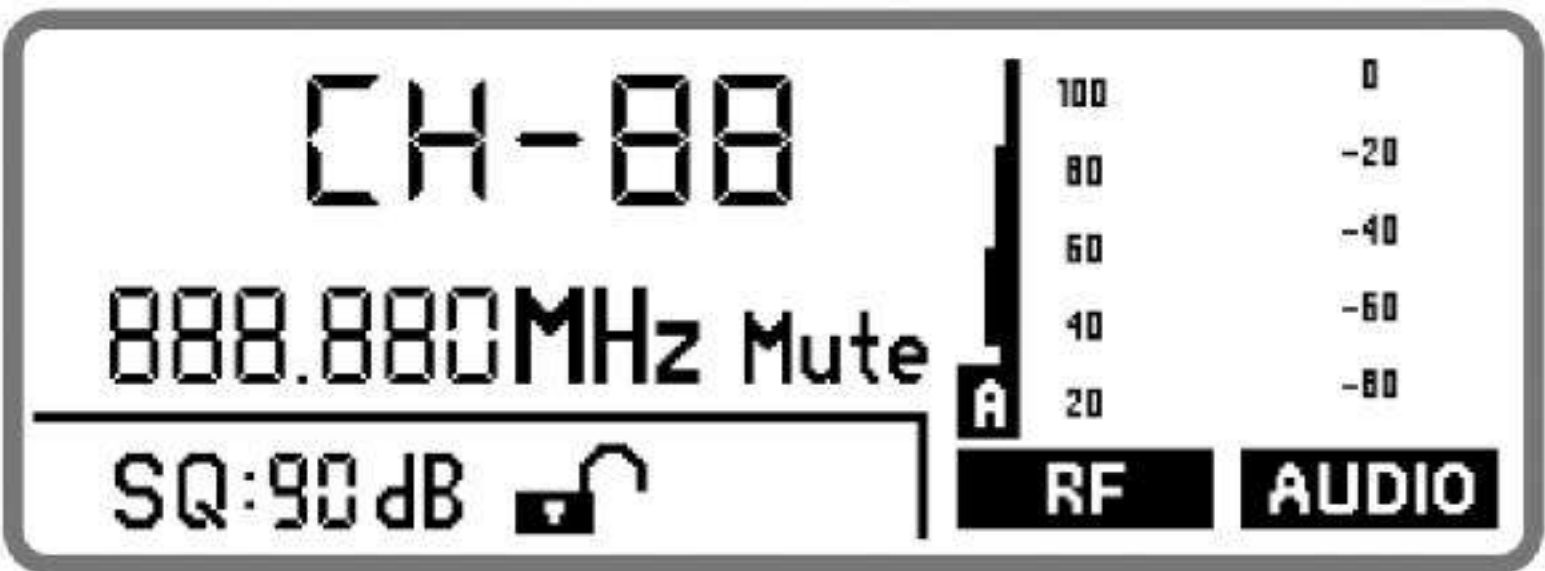
- ▲ The "UP", "DOWN" function button

When pressing the "UP" and "DOWN" button, the system goes into manual mode

After entering the FM mode, select the frequency channel via the "UP" and "DOWN" button.

Automatic frequency search mode

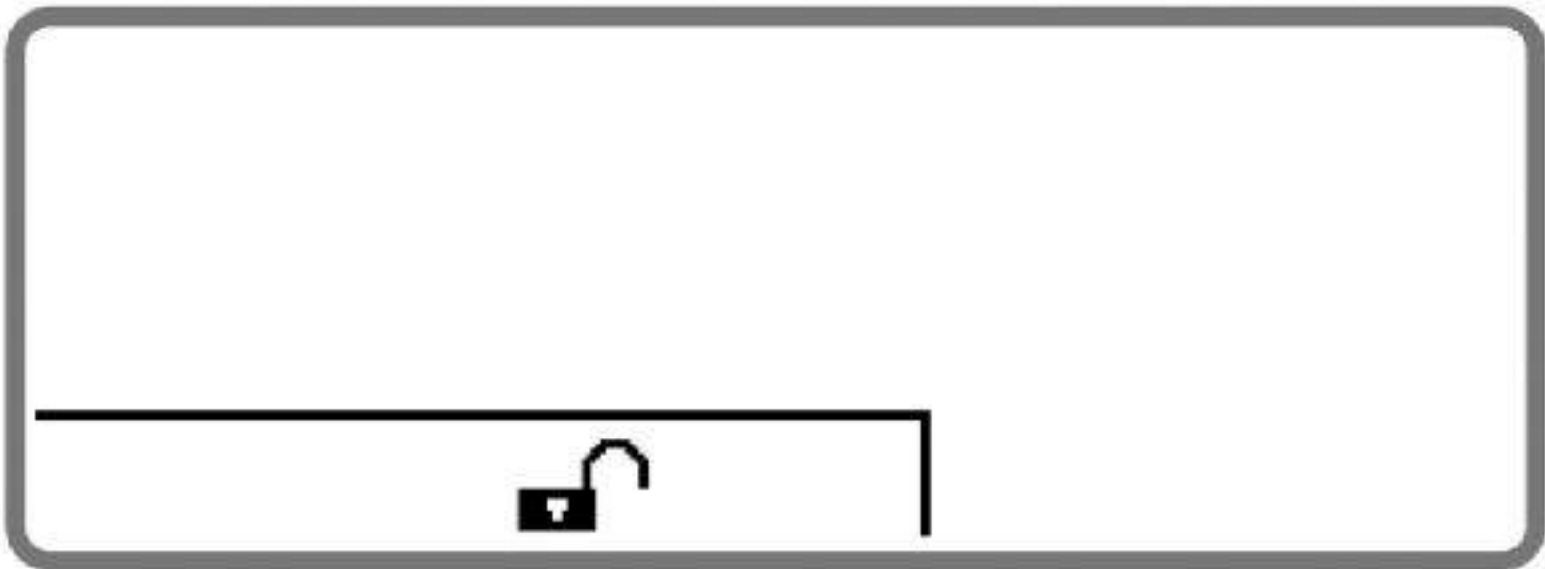
- ▲ The "AUTO" function button



Press the "AUTO" button for 1 second, the system sweeps automatically, and the numbers on the screen keep rolling. Auto sweep time up to 10 seconds, do not do other operations, 10 seconds after the system selected frequency.

Function lock

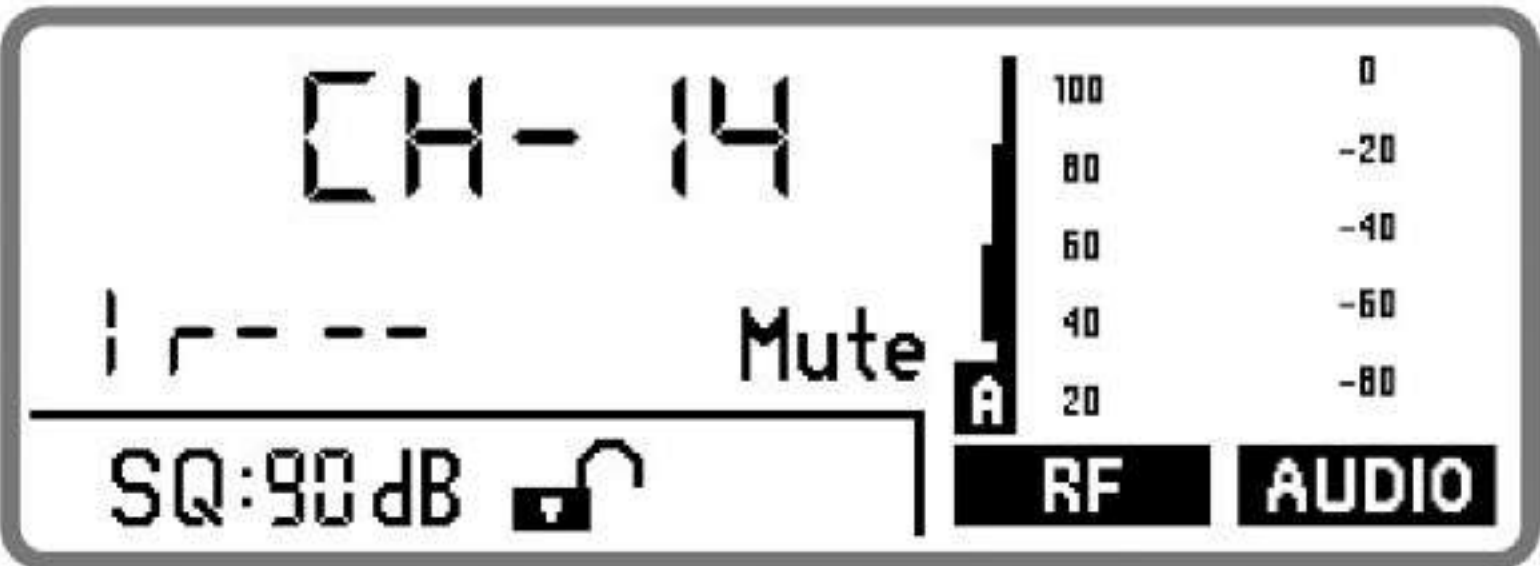
- ▲ The "LOCK" function button



After pressing the "LOCK" button for 1 second, the screen lock icon indicates the function button is locked and cannot be used. Again press the "LOCK" button for 1 second, the icon is displayed, you can perform functional operations at this time.

Infrared frequency

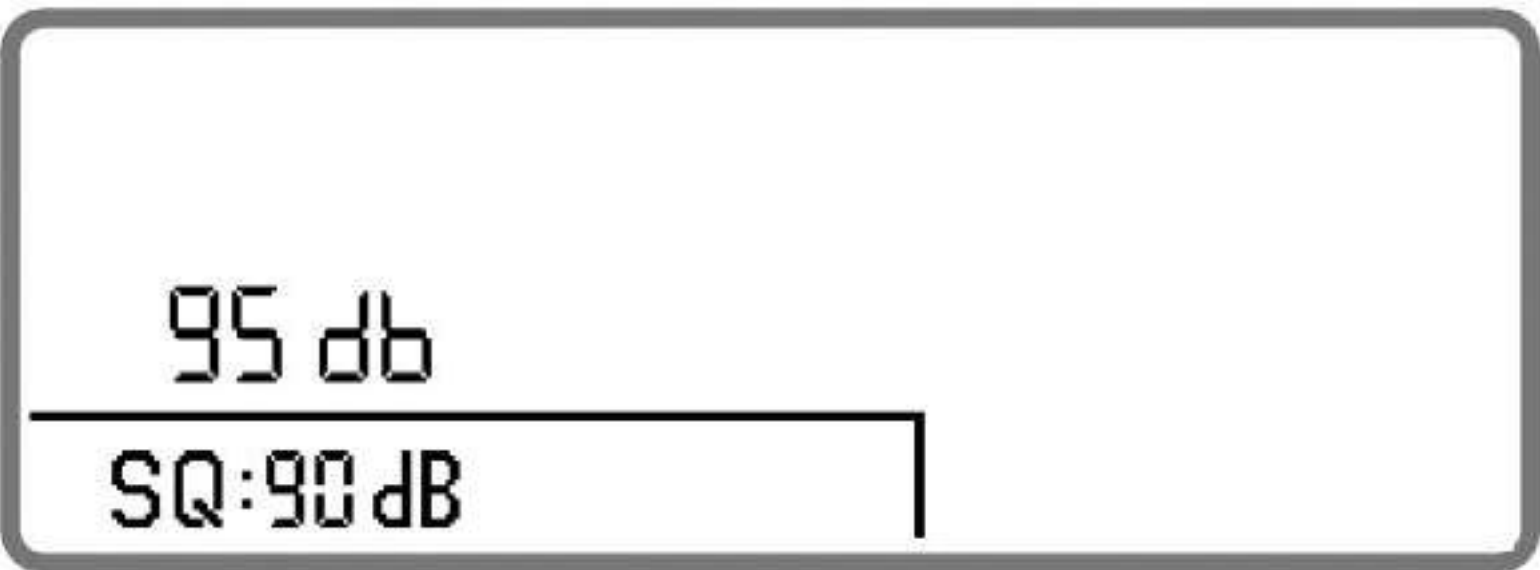
▲ "Sync" function button



Short press the button "Sync" , display "I r - - -" 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.

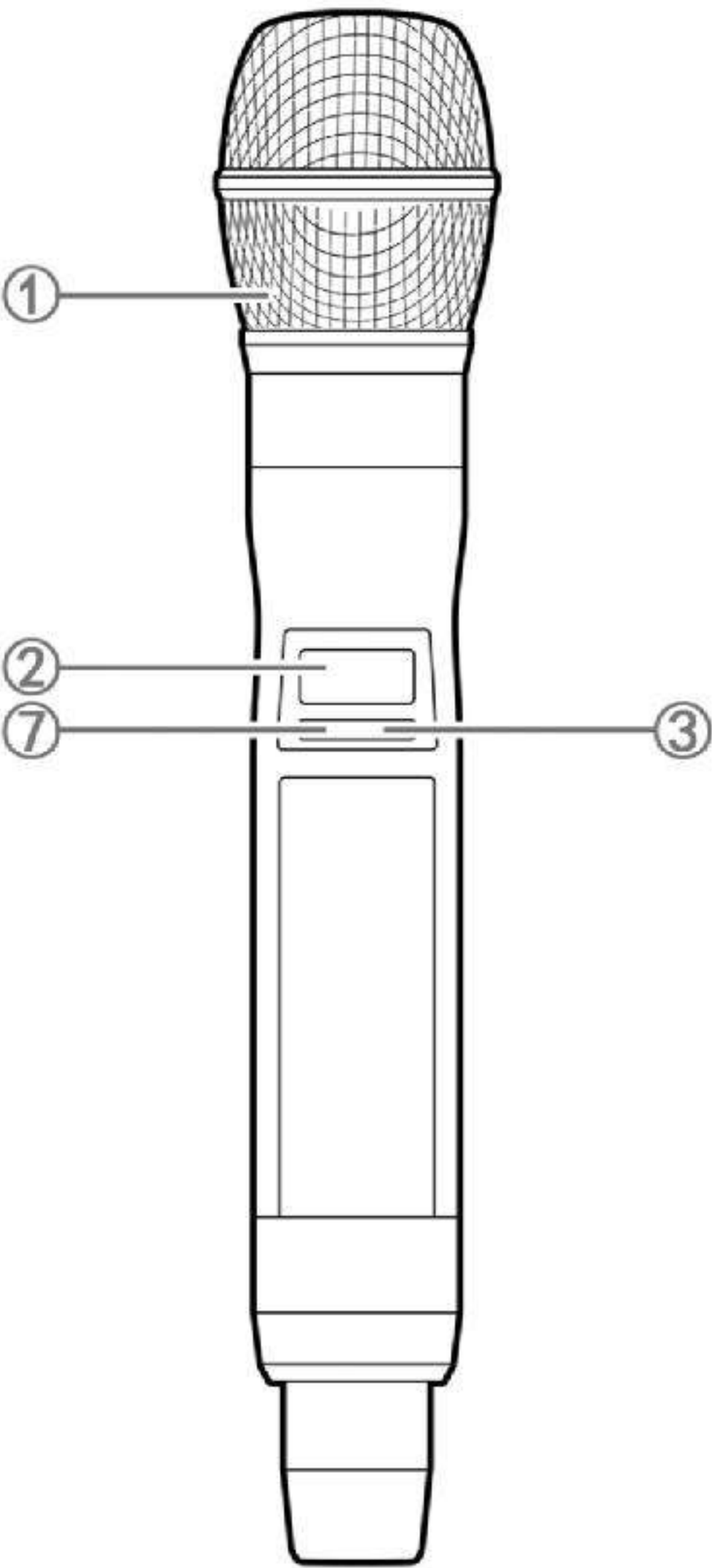
Through "up" "down" function keys to adjust the size of power.

With smaller values received power is small, value the greater the received power is larger.

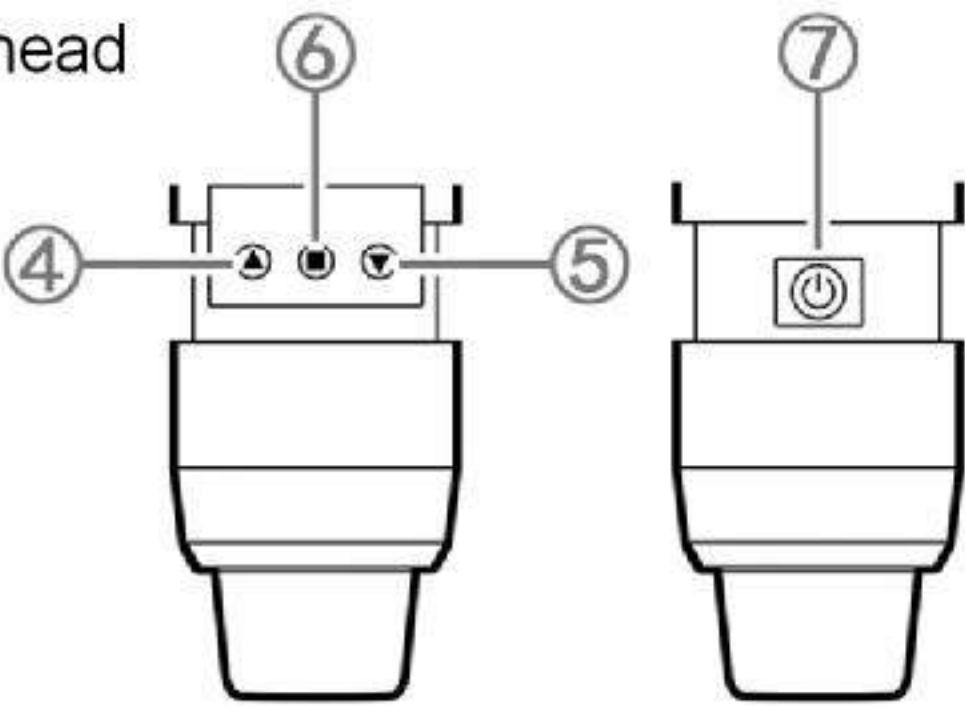
Product overview

Handheld microphone

▲ The various parts of the handheld microphone

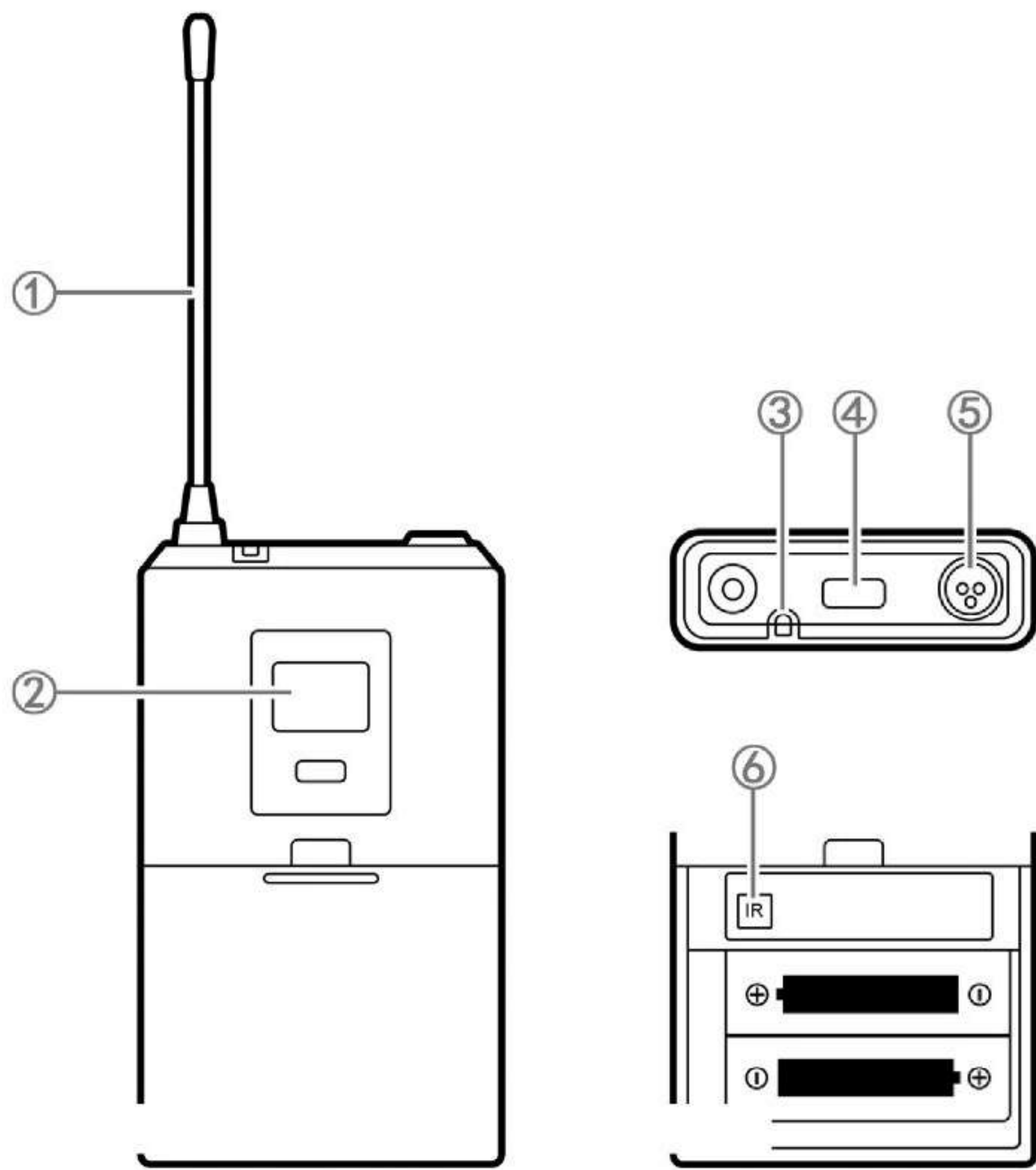


- ① Can replaceable the microphone head
- ② Display screen
- ③ Infrared to the frequency window
- ④ ▲ Up button
- ⑤ ▼ Down button
- ⑥ □ Setting button
- ⑦  Power switch button



Bodypack microphone

▲ The introduction of bodypack microphone

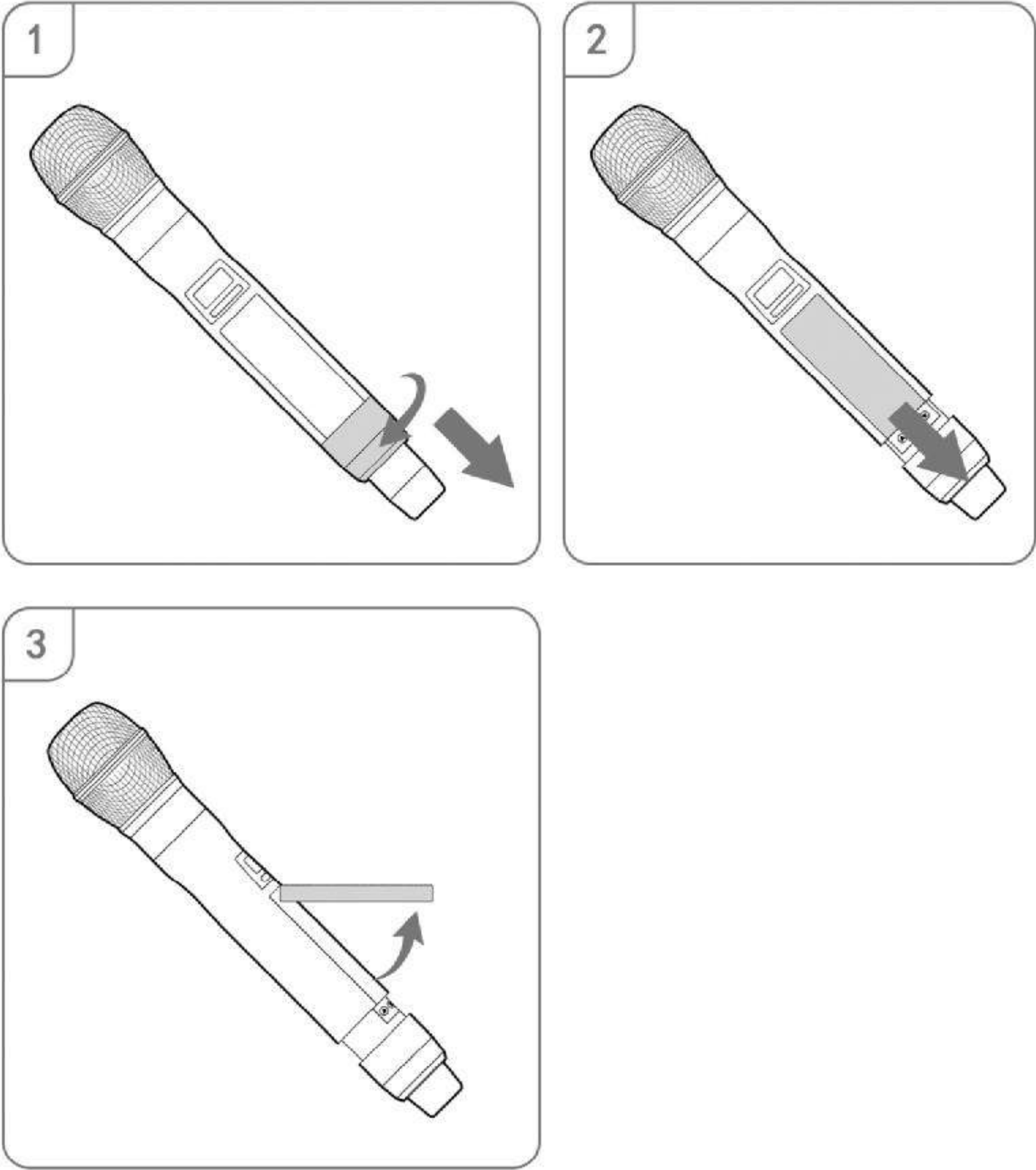


- ① Antenna
- ② Display screen
- ③ Power indicator light
- ④ Switch
- ⑤ Condenser microphone head socket
- ⑥ Infrared frequency window

Battery installation

Insert the battery into the battery box

▲ Please be careful of the battery positive and negative direction.



Battery installation.

Load the battery into the battery slot.

Make sure to change the battery after the microphone power off, to avoid sudden power failure and damage the system.

The normal operation microphone frequency is saved and will not be lost

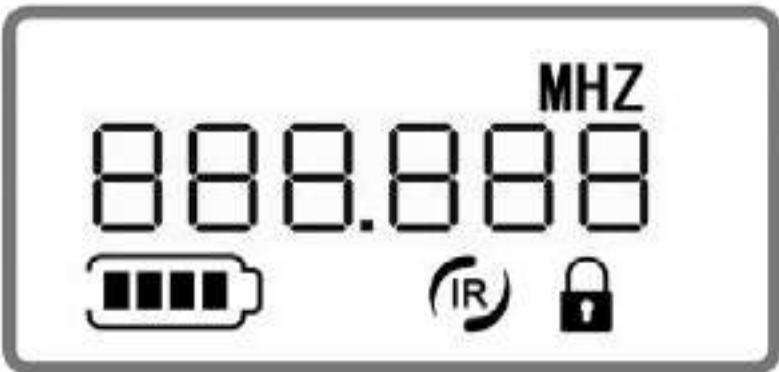
Use AA 5 batteries.

Use premium batteries, and don't use inferior batteries to avoid damage to the microphone.

Microphone operation


Handheld microphone screen

- ▲ Display the battery indicator and current using wireless frequency.






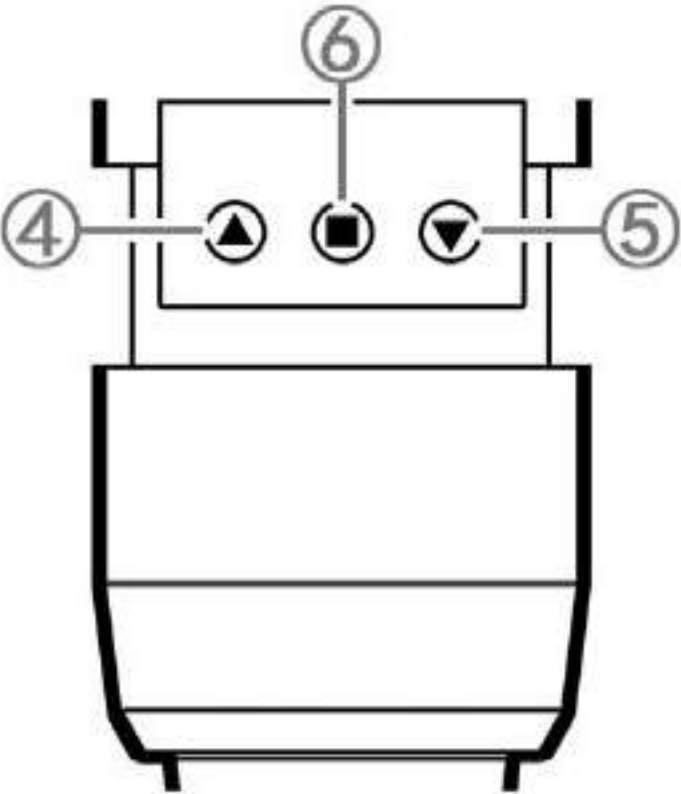
When the battery has a grid remaining, you should pay attention to the time you use and change the battery in time.





The battery must be replaced when the display is flashing continuously indicating that the battery is too low.

When the screen is displayed  , the buttons up and down are locked.

Handheld microphone function button

- ▲ Through ⑤  and ④  , UP and Down button to select the frequency channel, and then press the ⑥  function key frequency channels are selected.

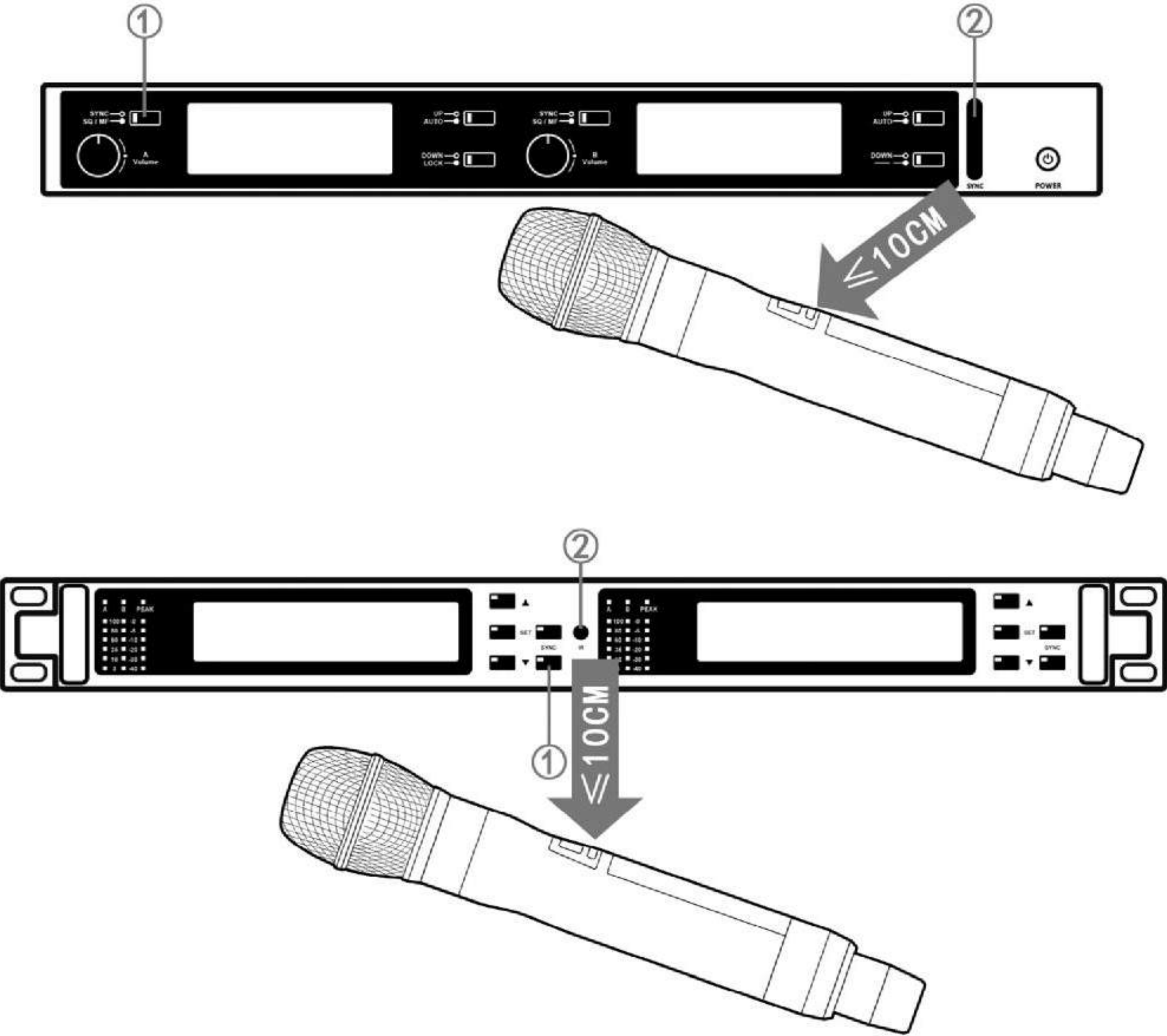


- ▲ The locked frequency adjusting function button, long press ⑥  function button until the screen display  , up and down buttons are locked, then the microphone can not be manual mode.
unlocked frequency adjusting function button, long press ⑥  function button, until the screen display  , up and down buttons are recovered, then the microphone will be the manual mode.

It is recommended that infrared frequency is used in conventional cases, and this operation is simple and convenient (see page10 for details)

Synchronous adjustment transmitter and receiver

The transmitter can be synchronized with the receiver by means of an infrared interface



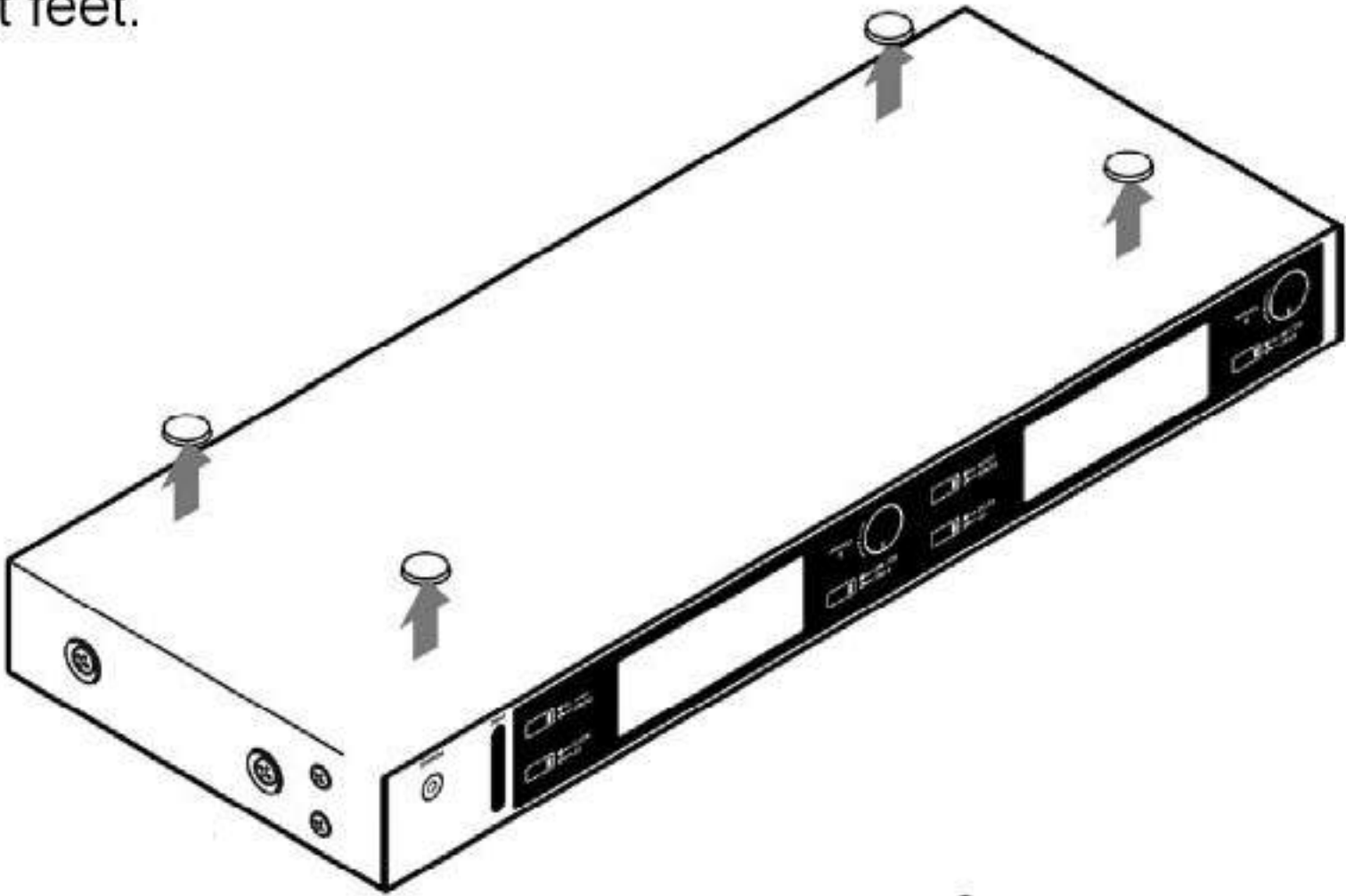
- ▲ Turn the transmitter and receiver power on
 - ▲ Press the button "SYNC" ① in the receiver, the receiver screen display infrared frequency.
 - ▲ Put the transmitter infrared frequency window on the front of the infrared frequency window ② of the receiver.
- The data is transmitted to the transmitter,after the infrared frequency response is successful The frequency of the transmitter and receiver will be the same.

If fails, please do it again.

The preparation of before the receiver installation in the cabinet

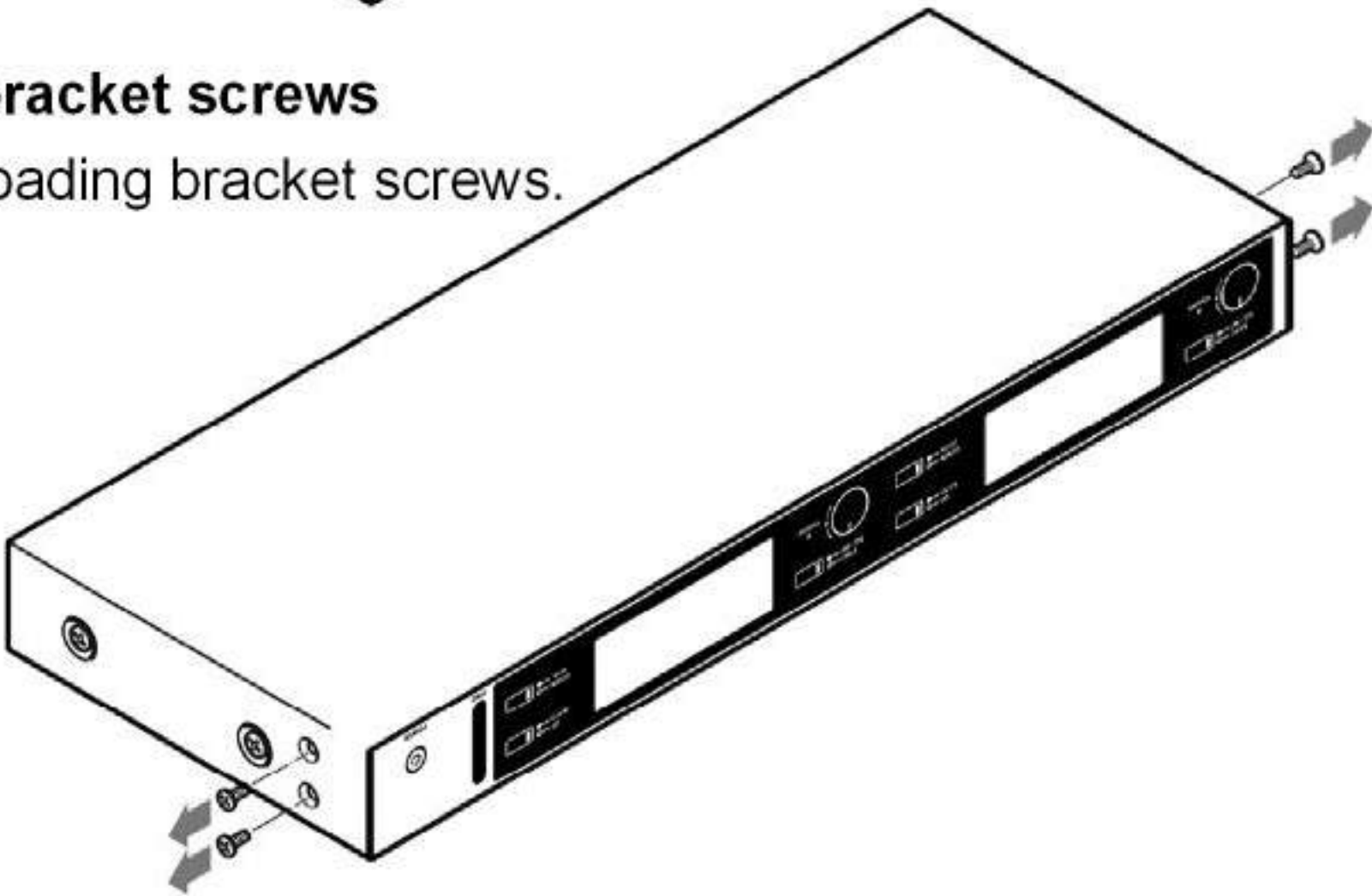
Remove the equipment bottom

▲ If you want to install the receiver to a 19 inch bracket, please don't paste equipment feet.



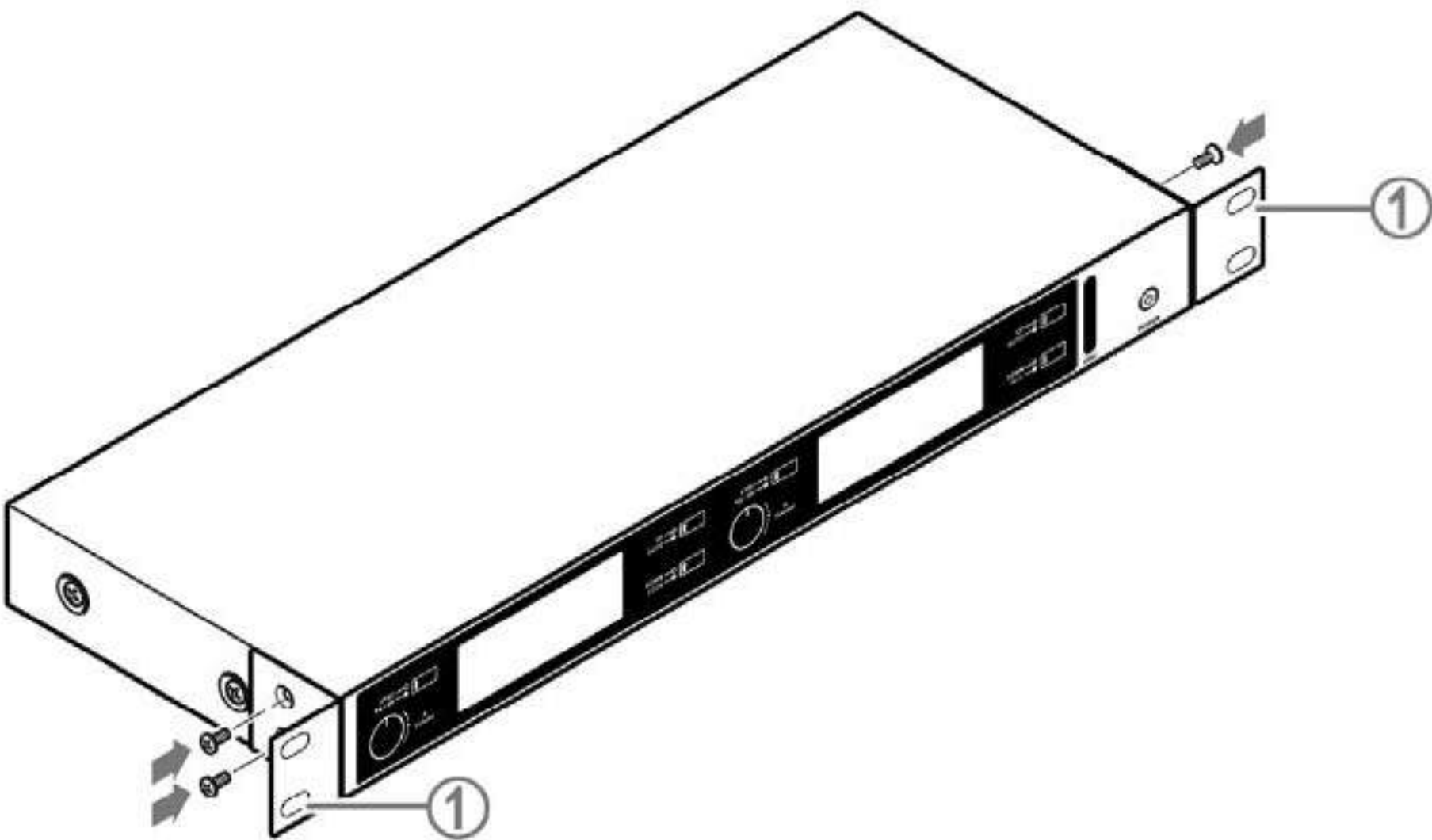
Remove bracket screws

▲ The unloading bracket screws.



Install Receiver angle

▲ Choose two angles ①, install it using the removed screws.



Cleaning and maintenance of the receiver

Liquid possible damage electronic device of the receiver!



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 receiving

- Transmitter effective signal range depending on the working environment and conditions. May is 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 in receiver through the antenna cable connecting two separated antenna.
- 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.

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 (10 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 (4 pages), RE sync transmitter frequency (10 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

Technical specifications

Receiver technical parameters


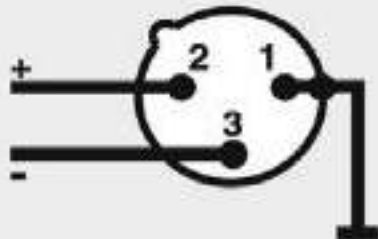

Chassis specifications:	Standard 1U case
Group of channels:	Dual channel
Carrier frequency:	615-665MHz 740-780MHz 780-820MHz (other bands can be customized)
Modulation:	FM
Oscillation mode:	Phase locked frequency synthesizer
Sensitivity:	Offset degree is equal to 25KHz, the 6dB V,S/N>60dB
Offset:	± 45kHz
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 ϕ 6.3
Temperature range of	-10 °C to +55°C
AC power supply :	0.5-1A, 12 -15V DC
Weight:	about 1850g
Size :	about 410 (wide) x 45 (high) x 200 (deep) mm

Technical parameter

Transmitter technical parameters

Carrier frequency:	615-665MHz, 740-780MHz, 780-820MHz
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 52 (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
		

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" (14 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" (14 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.