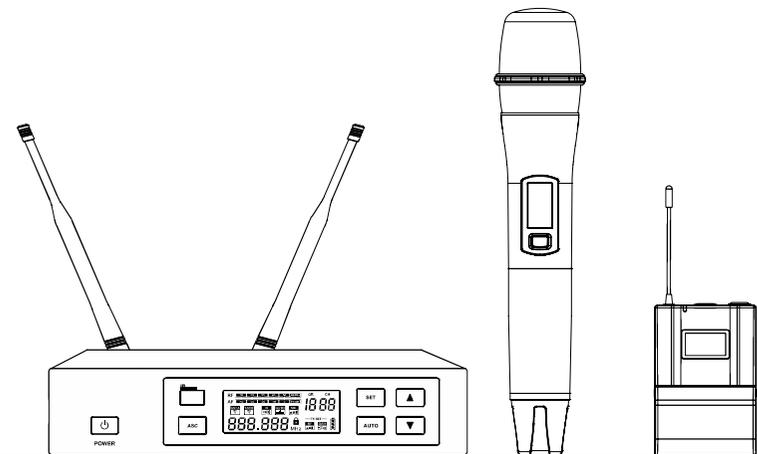


The technical data may be changed without prior notice

Wireless Microphone Systems

www.peas-pa.com

WS-900
WS-900A
WS-900B



Guangzhou Q&S Audio Co., Ltd

Post Code: 510000

Tel: +86-020-66679288

Website: www.peas-pa.com

Address: Room 604, Exchange Center, Panyu, TianAn Hi-tech Ecological Park, Guangzhou, China

USER MANUAL

Guangzhou Q&S Audio Co., Ltd

Specifications

System

Frequency range and transmitter output level
Frequency range Scope
655-679MHz
823-865MHz
The transmitter RF level
UA-13dBm
Work range on the typical understanding
80meter(240feet)
Notes: The actual scope and RF signal
relate to absorption, reflection
and interference
Audio frequency response (+/-3db)
60Hz~16KHz
THD (+/- 30khz excursion, 1khz audio)
<1%
Dynamic range
>90db (A wh)
The work temperature range
-10°C to +50°C
Notes: Battery characteristics may
affect the scope of the limits.

Handheld transmitter

Maximum audio input level
0dBV
SIZE (including a microphone head)
250mm*50mm diameter
Weight
360g(without battery)
Power requested
Two 1.5V "AA" charging battery
Battery life
>8 hours (alkalescence)

receiver

Audio output level (reference+/-30KHz , 1KHz)
XLR adaptor (switch in 600Ω) : -12dBV
1/4 inch adaptor (switch in 3000Ω): -18dBV
Output impedance
XLR adaptor: 200Ω
1/4 inch adaptor : 1kΩ
XLR output
Balance impedance
Contact pin 1: GND
Contact pin 2: (+)
Contact pin 3: (-)
Sensitivity (intermediate frequency
demodulator output SNR 30db)
<-90dBm
Image Rejection
>70dB
Size
44mm*212mm*160mm(The receiver ①)
44mm*410mm*160mm(The receiver ②)
Weight
880g(The receiver ①)
1750g(The receiver ②)
Power request
12 V DC, switching power supply 500
milliamperes from an external power.
bodypack transmitter
Max audio input level
6dBV
Size
65mm*165mm*22mm
Weight
130g (without battery)
Power request
Two 1.5V "AA" charging battery
Battery life
>8 hours (alkalescence)

Catalog

System components -----	3
receiver function for front panel -----	4
receiver function for back panel -----	5
receiver set up -----	7
handheld transmitter function -----	8
bodyback function -----	10
Single cabinet installation and connection diagram -----	13
Machine cabinet installation and connection diagram -----	14
Important safty instructions -----	15
Troubleshooting -----	15
Specifications -----	16

System

Thank you for your purchase and use the wireless system. For the need to set up a high-level UHF band wireless system users, the systems provides a good solution. the systems have 192 frequency channel, that can be widely used in various PA occasions, such as live performances, radio, meeting or musical instrument etc. All the systems components with feather-touch buttons and LCD screen to achieve fast and simple set.

Frequency band selection

Radio frequency used in the wireless communication in most countries have strict control. These regulations specify which devices can use what frequency. That helps limit in wireless communication (RF) interference degree.

In order to facilitate the use of this product in the world, the system provides frequency band, the user can choose according to the radio regulations over the available frequency band, including: U:584-865MHz

For the convenience of system settings and to prevent RF interference, each having a plurality of preset frequency group and channel.

The use of a single system, the working frequency generally do not need to change. Using a loading multiple receiver / transmitter system, each system must use different channels. Grouping and channel in te use of multiple transmitter / receiver system can provide the best frequency distribution.

Each assembly can use up to 16 transmitter /receiver system.

Important safty instructions

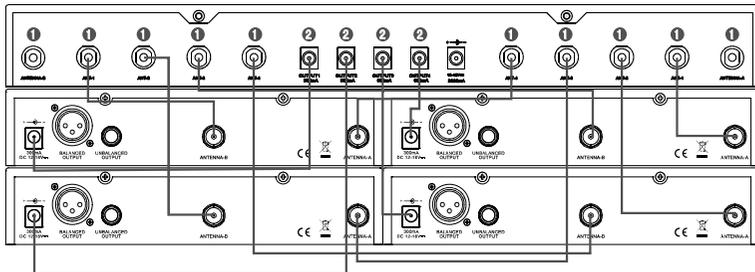
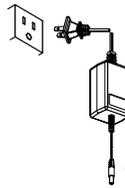
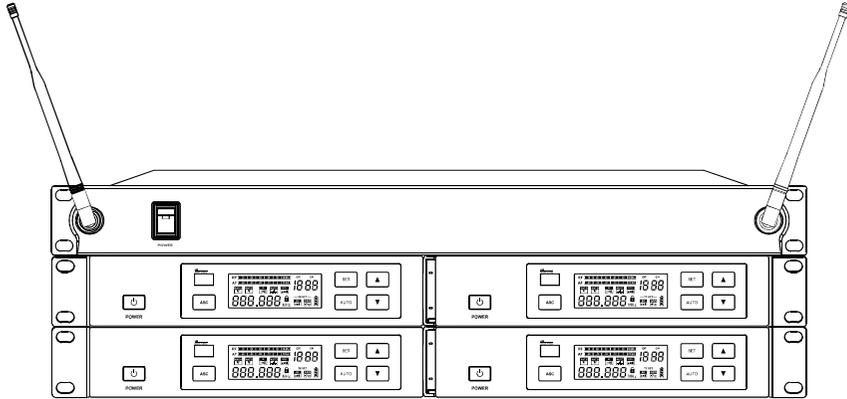
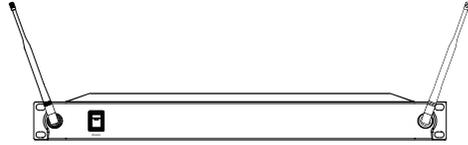
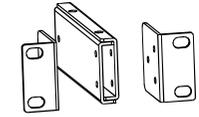
- Please put transmitter direct to antenna, without any obstacles between them.
- Please do not put the receiver near any metal surface or digital devices (such as CD player, computer, etc.)
- The receiver should be at least 1 meter high from ground. Please try not to put it near walls. To ensure enough ventilation, the space between receiver and other objects should be no less than 20cm.
- Please do not cover ventilation holes with such objects as newspaper, table cloth or curtain.
- Transmitting devices such as cellular phones and double-way wireless equipment may interfere audio signals. Therefore, transmitter and receivers should be away from those equipment or any other potential interfering sources.
- The equipment should avoid direct insolation and water drop. And vessels full of liquidity such as vases should be away from it.
- The equipment should be opened, serviced and repaired by authorized personnel only.
- Any naked fire, such as lighted candles shouldn't be put on the receiver.
- Batteries (battery pack or battery unit) shouldn't be exposed to insolation, roast or any similar environment that is too hot. Please do not litter waste batteries. Put them in designated recycling bins instead.
- Power plugs and appliance couplers that act as disconnecting devices should be easy to operate.
- Working temperature should be -10°C to +50°C.

Troubleshooting

Problem	Indicator (lamp) state	solution
No sound or faint sound	Transmitter power light off.	Turn on the main power; confirm the + / - mark on the battery and the transmitter terminal of the phase matching.
	Receiver power indicator off.	Confirmation of a head of the AC power adapter is plugged into a power jack, the other end is inserted into the receiver backboard straight direct input jack; confirm the AC power supply is normal, and confirm the power supply voltage is normal.
	Receiver RF indicator glows.	adjustable high receiver volume control; adjustable high transmitter gain switch setting; Check the receiver and amplifier or mixer cable connections.
	Receiver power indicator off. Receiver RF indicator glows.	The receiver side away from metal objects. Check in between the transmitter and the receiver are obstacles to closer receiver transmitter. Check whether the receiver and transmitter using the same frequency.
	Transmitter low-voltage indicator lights	The transmitter battery replacement.
Distortion or excess noise	Receiver for RF signal lights	Radio frequency interference source removal nearby (such as CD, computer, digital devices, earplugs monitoring system); the receiver and transmitter to different frequency; reduce the transmitter; transmitter battery replacement; if the use of multiple system, can increase the frequency interval between various systems.
Distortion level gradually increased	Low Battery indicator glows.	The transmitter battery replacement.
Sound level and electric guitar or microphone, or use a different guitar sound different level		According to the need to adjust the transmitter and receiver volume

Machine cabinet installation and connection diagram

- ① TNT/BNC dualhead connecting line (Optional accessories)
- ② Power connecting line
- ③ Direct power adapter socket
- ④ PA-D60 panel (Optional accessories)
- ⑤ Antenna Distribute Implement (Optional accessories)

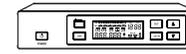


system components

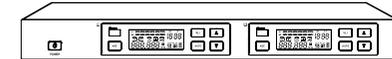
all system including:

- The receiver ①
- Two 1.5V "AA" charging battery
- One piece of '1/4' Audio tie line
- Power adapter
- PA-D40 rack panel
- Two antenna
- User guide

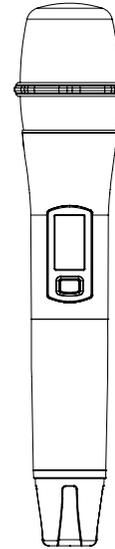
- The receiver ②
- four 1.5V "AA" battery
- One piece of '1/4' Audio tie line
- Power adapter
- PA-D10 rack panel
- Two antenna
- User guide



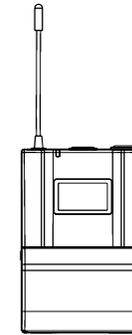
The receiver ①



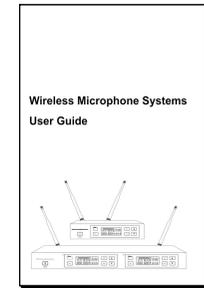
The receiver ②



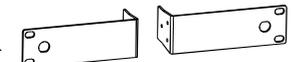
handheld transmitter



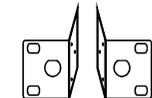
bodypack transmitter



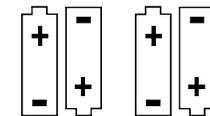
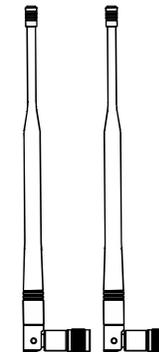
Wireless Microphone Systems User Guide



PA-D40 rack panel

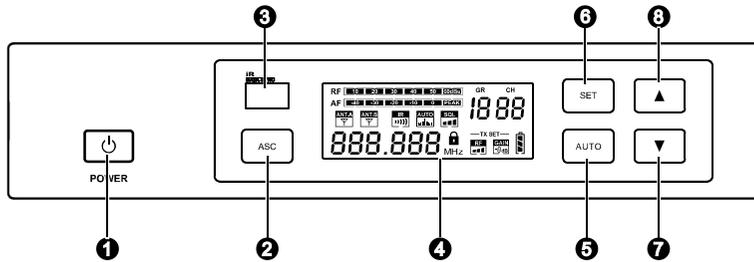


PA-D10 rack panel



The receiver ① function:

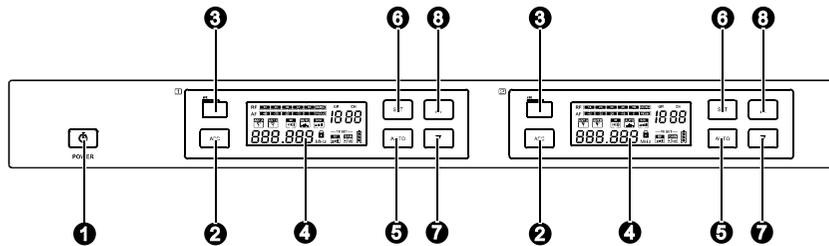
front panel



- ① The power switch, touch a seconds can be open or closed
- ② "ASC" infrared frequency key light, press this key, the screen IR flashing, flashing duration of 10 seconds in the microphone infrared frequency window at the IR window of frequency.
- ③ Infrared frequency "IR" window.
- ④ LED display.
- ⑤ The menu button "AUTO", fast frequency sweep
- ⑥ Set up all the functions show on the LED screen.
- ⑦ ⑧ Fast channel setting up and down keys

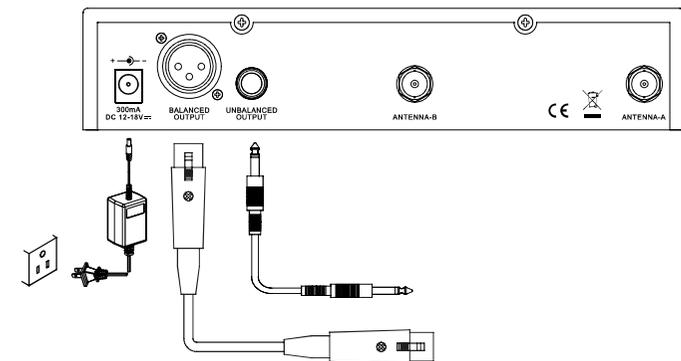
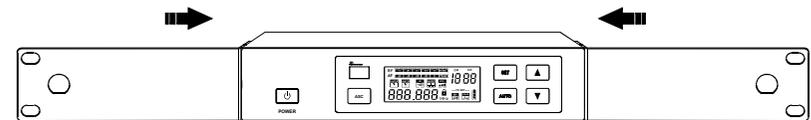
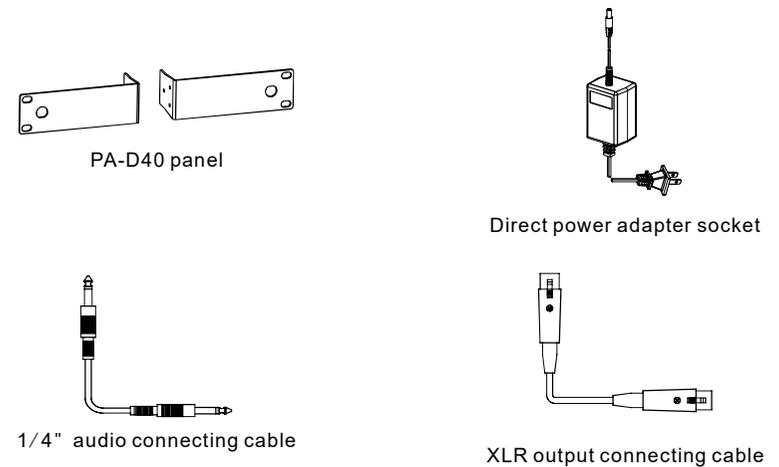
The receiver ② function:

front panel



- ① The power switch, touch a seconds can be open or closed
- ② "ASC" infrared frequency key light, press this key, the screen IR flashing, flashing duration of 10 seconds in the microphone infrared frequency window at the IR window of frequency.
- ③ Infrared frequency "IR" window.
- ④ LED display.
- ⑤ The menu button "AUTO", fast frequency sweep
- ⑥ Set up all the functions show on the LED screen.
- ⑦ ⑧ Fast channel setting up and down keys

Single cabinet installation and connection diagram

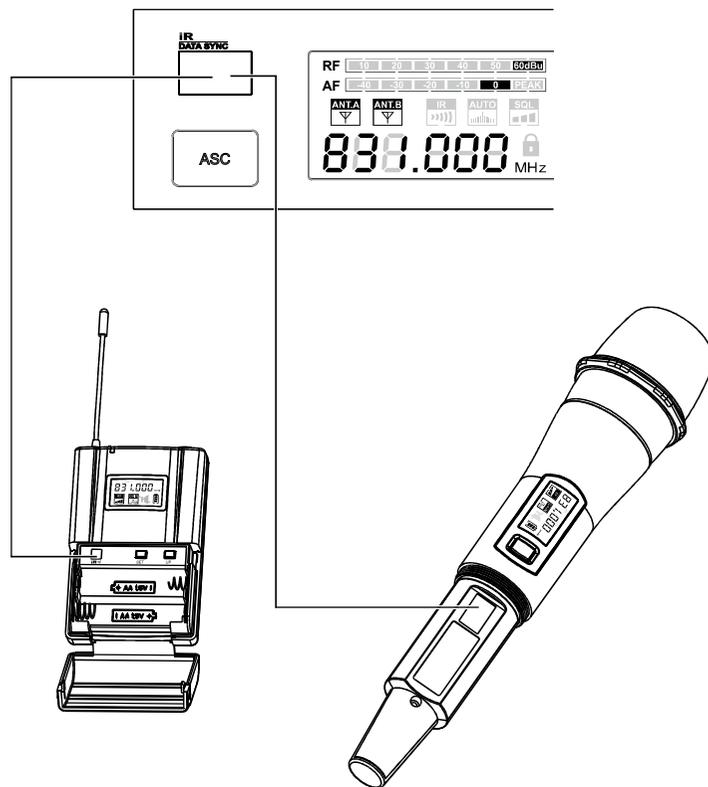
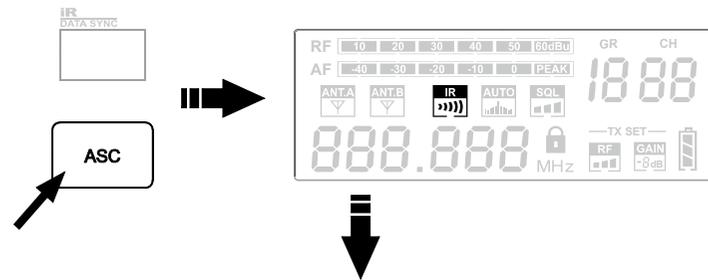


General rooms or short distance can choose 1/4 inch connection function; such as long distance connections, suggestion choice XLR output function.

Then main function of instructions

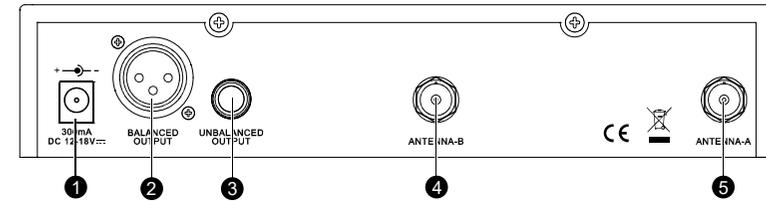
frequency setting

press the **ASC** button, **IR** flashing the host screen, IR flashing at the same time, the transmitter infrared window at the host infrared window, automatic frequency can be completed, **IR** disappear automatically, emission Machine display light from dark to light, Display the normal.



The receiver ① function:

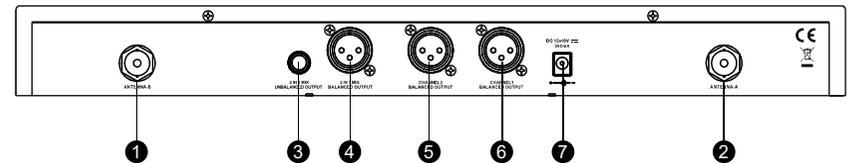
Back panel



- ① DC power adapter socket
- ② XLR output socket
- ③ 1/4 inch output socket
- ④ Antenna jack B 50 ohm
- ⑤ Antenna jack A 50 ohm

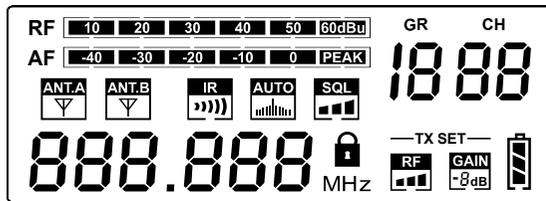
The receiver ② function:

Back panel



- ① Antenna jack B 50 ohm
- ② Antenna jack A 50 ohm
- ③ 1/4 inch Mix output socket
- ④ XLR Mix output socket
- ⑤ Channel 2XLR output socket
- ⑥ Channel 1XLR output socket
- ⑦ DC power adapter socket

The receiver display function



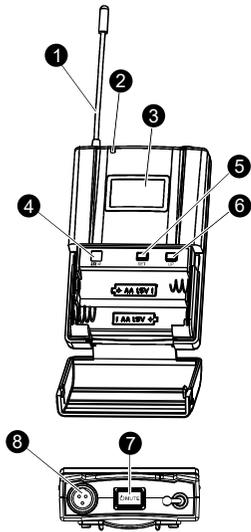
Icon	Function
	The frequency indicator
	Adjust the transmitter power RF
	The transmitter Microphone gain adjustment
	Noise gate threshold
	The receiver RF lamp
GR	Current group
CH	Current channel
RF	Receiver signal strength
AF	Audio level

bodypack transmitter setting

The transmitter display state:

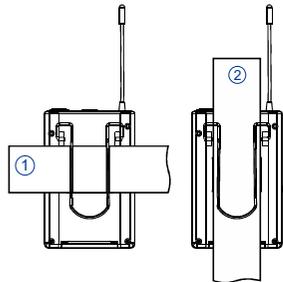
- open and mute : MUTE
press and hold MUTE button to open, press and hold MUTE button to close.
- click MUTE Open the mute state, click MUTE Cancel mute function,
Manually selecting a frequency or channel: SET
- Long press SET button the display "GR" ①, press "UP" to change the frequency of the number of the group.
Press the SET button can display in "CH" ②, press "UP" to change the frequency of the use of the channel group.
- Press the SET button, can display in "RF" ③, press "UP" to adjust the transmitter power RF.
Press the SET button can display in "GAIN" ④, press the "UP" transmitter microphone gain adjustment.
- Press the SET button can display the current frequency.

Bodypack Transmitter



Function:

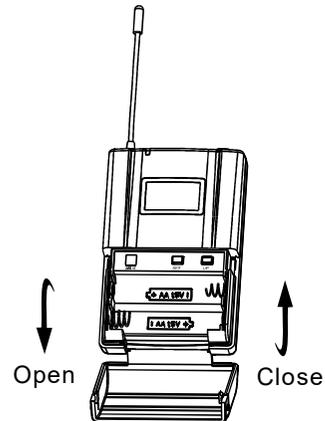
- ① Antenna
- ② Power Indicator Light
- ③ LED screen (please refer to the transmitter eleventh page 11 settings)
- ④ Infrared frequency (IR) window
Receives the infrared signal, the frequency synchronization.
- ⑤ Press the "SET" switch, set by the liquid crystal screen display function.
- ⑥ "UP" switch, press the "SET" switch, value is set by the liquid crystal screen display function.
- ⑦ Power /mute switch
Press and hold can be opened or closed, press release can be mute or unmute.
- ⑧ 3-pin microphone input.



Wearing the bodypack transmitter:

The transmitter is clamped in the belt ①, can also be through the transmitter with the guitar ②, such as the left diagram shown in.

To achieve the best effect, the transmitter to push down, the base until belt tightly transmitter clip ①.



Changing batteries:

Two alkaline batteries are expected to use time is about 8 hours.

When the battery is low voltage indicator is flashing, the battery should be replaced immediately (as shown below).



Receiver set up:

Frequency number and channel selection: press "SET" button, press two seconds unlock "🔒" and press the "SET", "GR" flashing, press ▲ or ▼ to select the appropriate channel, as shown in Figure ①;

Then press "SET", "CH" flashing, press ▲ or ▼ to select the appropriate channel, such as shown in Figure ②;

Then click "SET", "SQL" flashing, press ▲ or ▼ to select a SQL squelch start end, three stall regulation, such as shown in Figure ③;

Then click "SET", "TX SET" and RF flashing, press ▲ or ▼ to select a transmit power adjustment, as shown in figure ④;

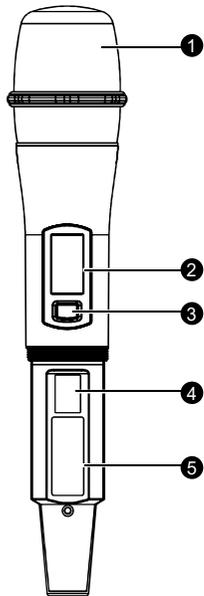
Then click "SET", "TX SET" and GAIN flashing, press ▲ or ▼ to select the microphone gain adjustment is shown in Figure ⑤;

Receiver volume control:

This machine has the electronic volume control system, according to the "SET" key, two seconds "🔒" release, press ▲ or ▼ key control receiver. The output volume (total 64) as shown in Figure ⑥.



Handheld Transmitter

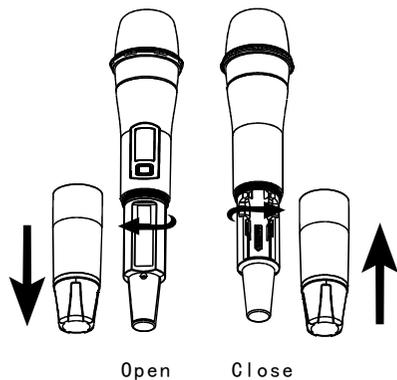


Function:

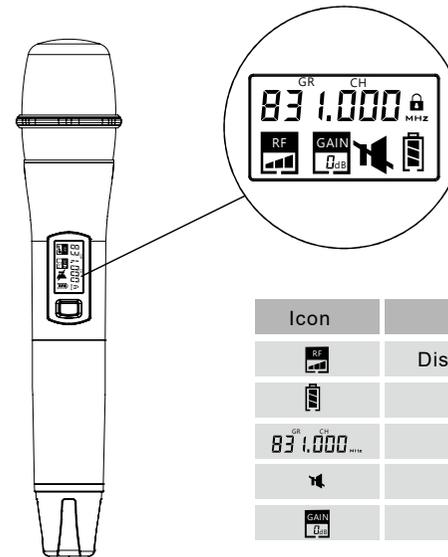
- ① Microphone head
- ② LED liquid crystal display
- ③ The power switch, touch a seconds can be open or closed (including mute setting).
- ④ Infrared frequency (IR) port
- ⑤ Battery cover

Changing batteries:

Two alkaline batteries expected about 8 hours time. When the display power indicator and flashing, the battery should be replaced immediately (as shown below).



The transmitter display function:



Icon	Function
	Display power of transmitter intensity
	Battery power display
	The frequency of using
	Mute symbol
	Microphone gain value

Mute: tap again to open the key, hand-held transmitter is muted, display the icon display, Tap again to clear the mute.

The main function of the transmitter

(1) The microphone gain adjustment: display gain number.



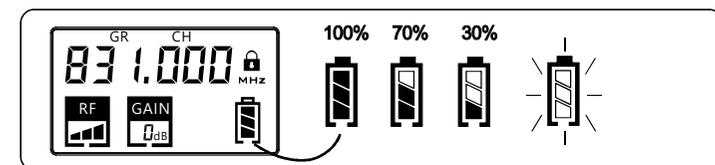
(2) The transmit power adjustment: display power number.



(3) Frequency of use confirmation: display frequency.



(4) Low power tips: when the battery power is less than 1.8V, such as forced open the launcher, an icon display , three seconds after the microphone off automatically, should the battery icon shows 30% to replace the battery.



Note : (1) (2) feature in the receiver set, through the infrared frequency can be achieved.