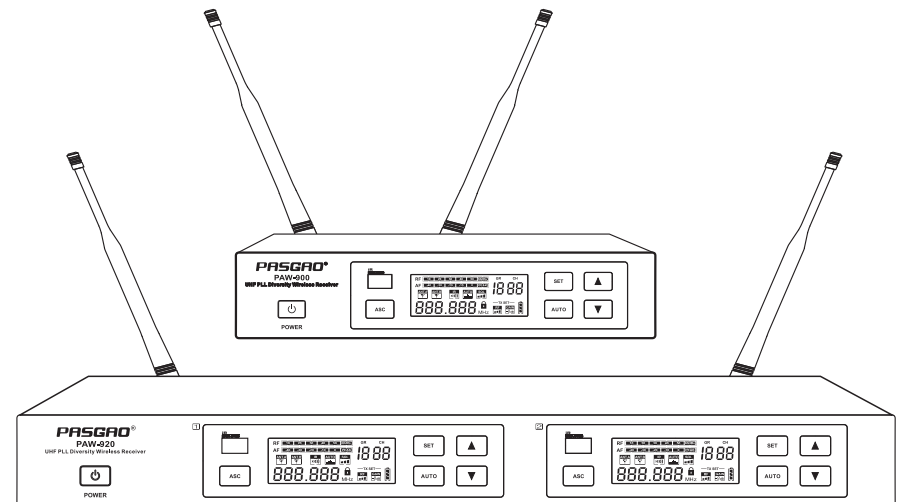


[WWW.PASGAO.COM](http://WWW.PASGAO.COM)

**PAW-900/920**

## Wireless Microphone Systems User Guide





# 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  
          >10 hours (alkalinescence)

## 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(PAW-900)  
          44mm\*410mm\*160mm(PAW-920)  
Weight  
          880g(PAW-900)  
          1750g(PAW-920)  
Power request  
          12 V DC, switching power supply 500  
          milliamperes from an external power.

## bodypack transmitter

Max audio input level  
          6dBV  
Size (include the head of microphone )  
          65mm\*165mm\*22mm  
Weight  
          130g ( without battery )  
Power request  
          Two 1.5V "AA" charging battery  
Battery life  
          >10 hours (alkalinescence)

# Catalog

System components -----	3
PAW-900/920 receiver function for front panel-----	4
PAW-900/920 receiver function for back panel -----	5
PAW-900/920 receiver set up -----	7
PAH-801 handheld transmitter function-----	8
PBT-801 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 PAW-900 wireless system. For the need to set up a high-level UHF band wireless system users, PAW-900/920 provides a good solution. PAW-900/920 have 192 frequency channel, that can be widely used in various PA occasions, such as live performances, radio, meeting or musical instrument etc. All PAW-900/920 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 PAW-900/920 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 the use of multiple transmitter / receiver system can provide the best frequency distribution.

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

## Important safety instructions

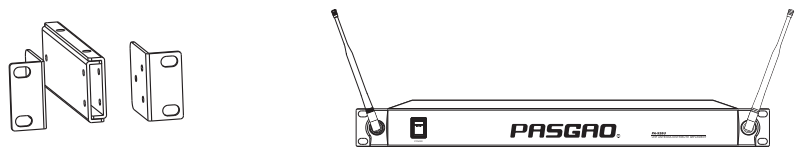
- The transmitter and antenna should remain relatively position line accessibility
- Don't put the receiver placed in close proximity to the metal surface or near any digital device (such as a CD player, computer etc.);
- The receiver should leave 1m above the ground, try not to close to the wall, in order to fully ventilated, the minimum clearance is not around the device is less than 20cm;
- Ventilation holes should not cover such as newspapers, tablecloths and curtains special items and hindering ventilation;
- Cellular phones and two-way radio emission in place can interfere with the audio transmission, should make the transmitter and receiver are far from these devices and their potential sources of interference;
- The receiver should avoid direct sunlight or water, water splash and should not be placed such as vases filled with liquid on it;
- Do not disassemble;
- The receiver should not be placed naked flame sources, such as a lighted candle;
- Don't litter waste when the battery, please put in the designated bins;
- In order to make the system work normally, the ambient temperature at  $-5^{\circ}\text{C} \sim +50^{\circ}\text{C}$ .

## 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

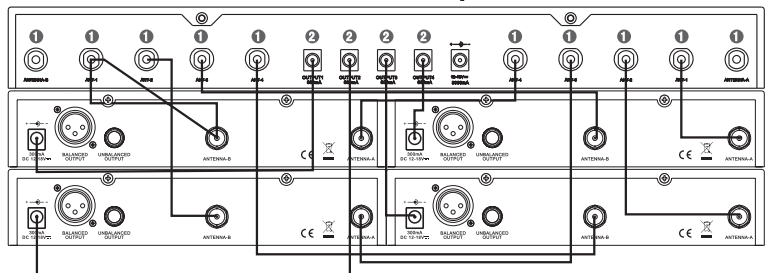
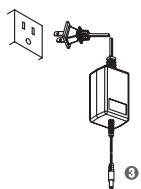
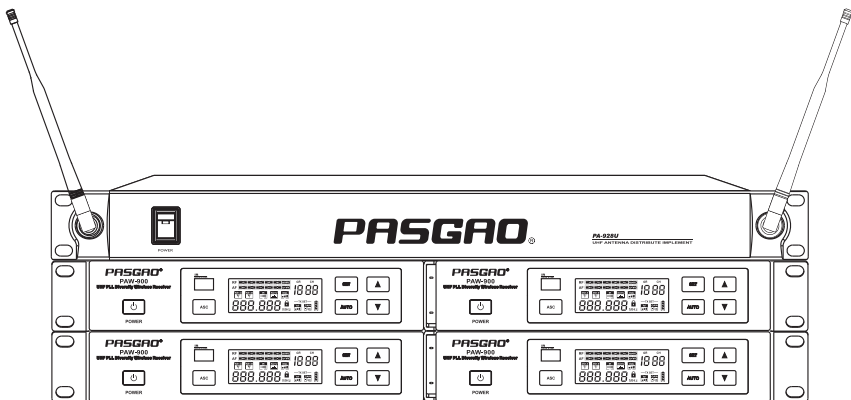
## Machine cabinet installation and connection diagram

- 1 TNT/BNC dualhead connecting line (Optional accessories)
- 2 Power connecting line
- 3 Direct power adapter socket



- 4 PA-D60 panel (Optional accessories)

- 5 PA-928U Antenna Distribute Implement (Optional accessories)

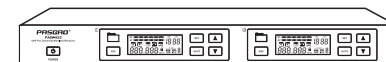


## system components

### all system including:

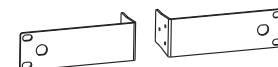
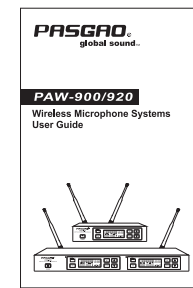
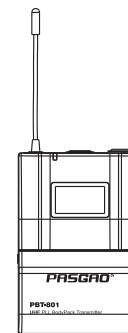
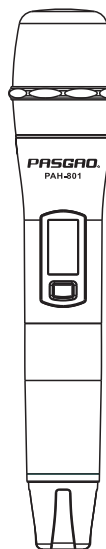
- PAW-900 receiver
- Two 1.5V "AA" charging battery
- One piece of '1/4' Audio tie line
- Power adapter
- PA-D40 rack panel
- Two antenna
- User guide

- PAW-920 receiver
- four 1.5V "AA" battery
- One piece of '1/4' Audio tie line
- Power adapter
- PA-D10 rack panel
- Two antenna
- User guide

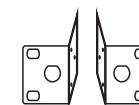


PAH-801 handheld transmitter

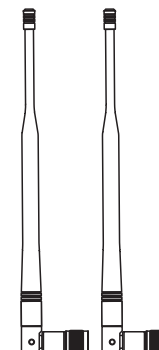
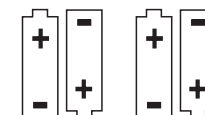
PBT-801 bodypack transmitter



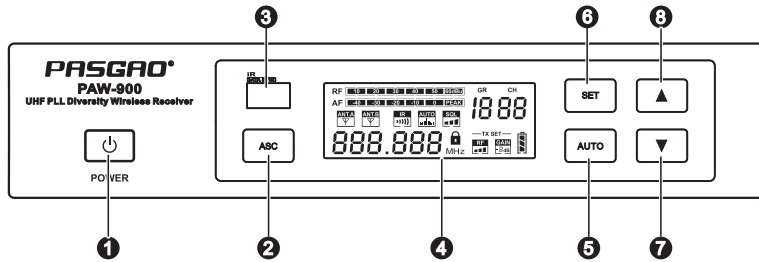
PA-D40 rack panel



PA-D10 rack panel

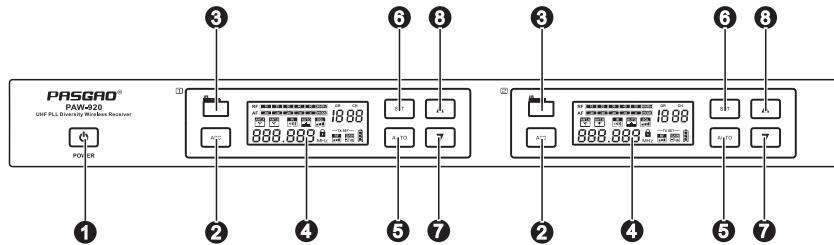


## PAW-900 receiver function: front panel



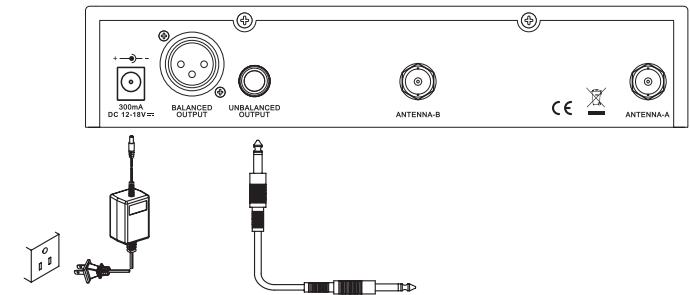
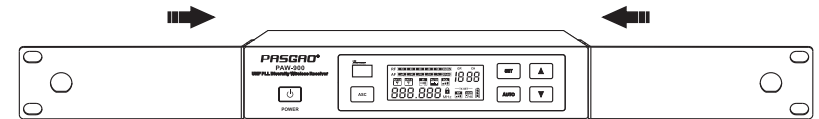
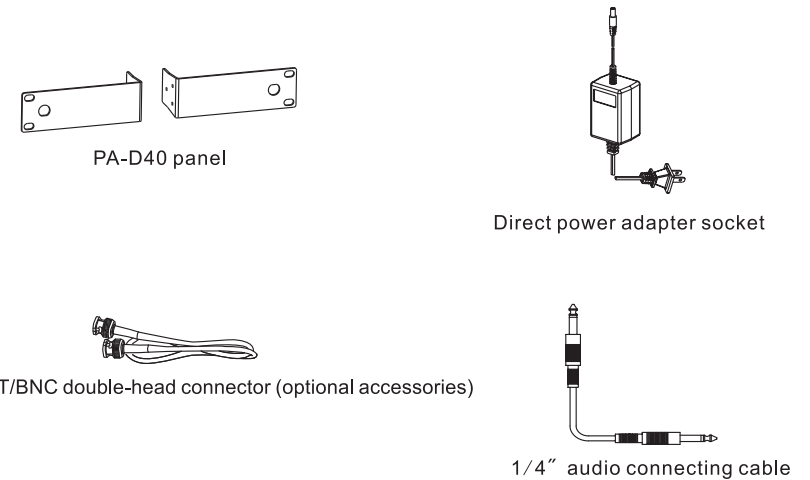
- 1 The power switch, touch a seconds can be open or closed
- 2 "ASC" infrared frequency key light, press this key, the screen IR flashing, flashing duration of 10 seconds in the microphone infrared frequency window at the IR window of frequency.
- 3 Infrared frequency "IR" window.
- 4 LCD display.
- 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

## PAW-920 receiver 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 LCD 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

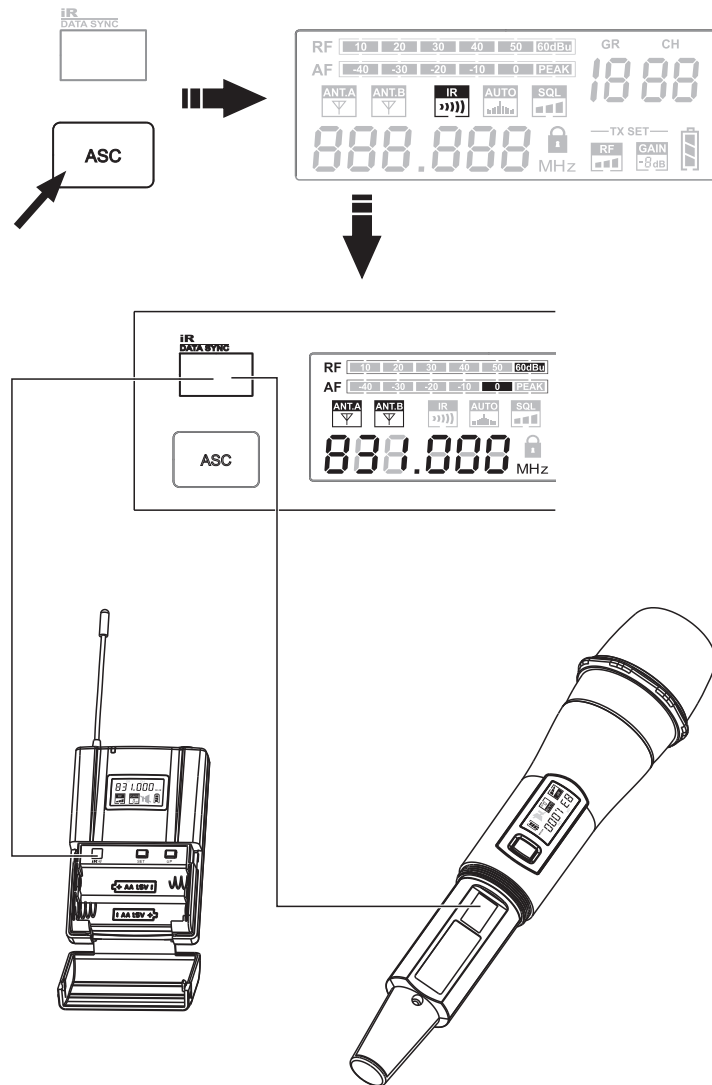


General rooms or short distance can choose 1/4 inch connection function; such as long distance connections, suggestion choice XRL output function.

## Then main function of instructions

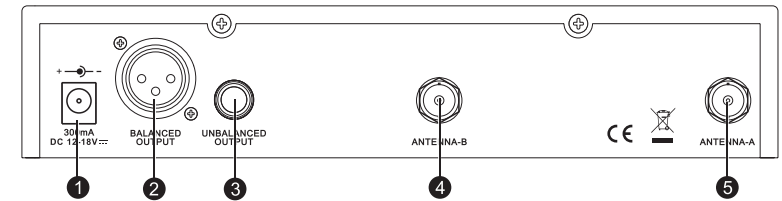
frequency setting

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.



## PAW-900 receiver function:

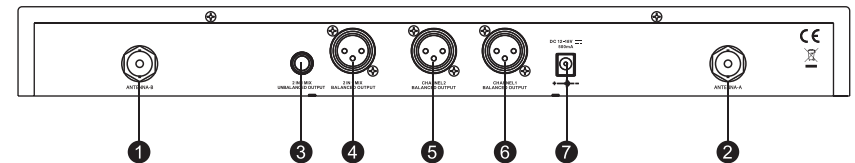
Back panel



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

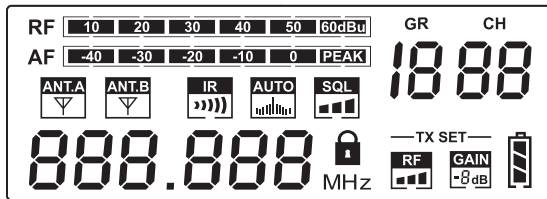
## PAW-920 receiver function:

Back panel



- ① Antenna jack A 50 ohm
- ② Antenna jack B 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

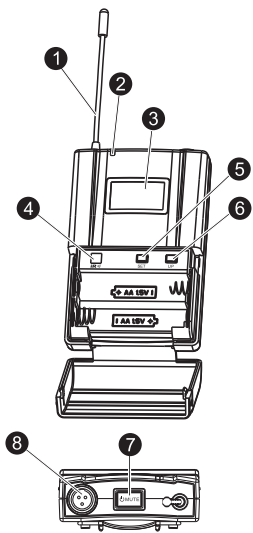
## bodypack transmitter setting

The transmitter display state:

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

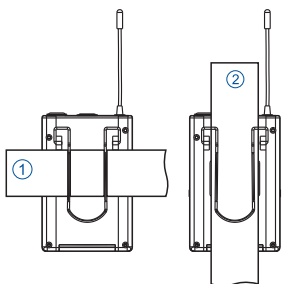


## PBT-801 feature:



### Function :

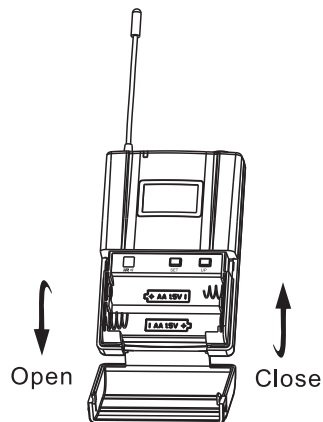
- ① Antenna
- ② Power Indicator Light
- ③ LED screen (please refer to the transmitter eleventh page 11 settings)
- ④ Infrared frequency (IR) window  
Receives the infrared signal, the frequency synchronization.
- ⑤ Press the "SET" switch, set by the liquid crystal screen display function.
- ⑥ "UP" switch, 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 10 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 ;

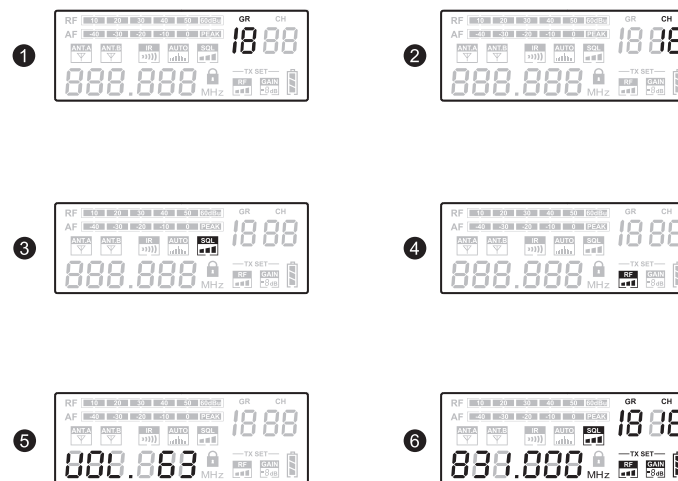
Then click "SET", "SQL" flashing, press ▲ or ▼ to select a SQL squelch start end, three stall regulation , such as shown in Figure ③ ;

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

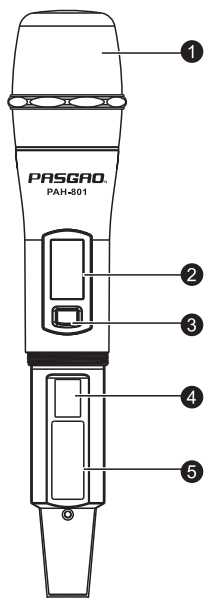
Then click "SET", "TX SET" and GAIN flashing, press ▲ or ▼ to select the microphone gain adjustment is shown in Figure ⑤ ;

### 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.



## PAH-801 features:

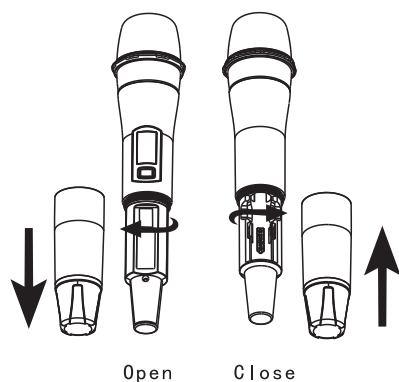


### Function:

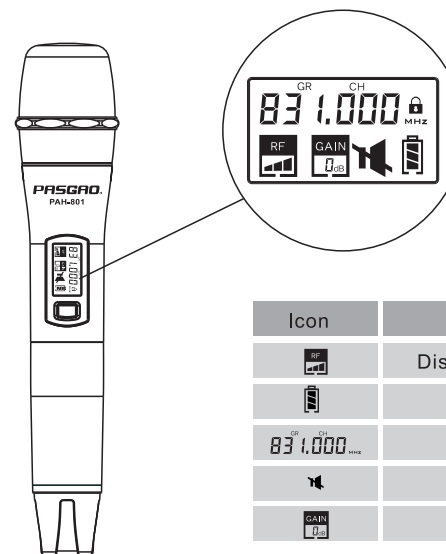
- ① Microphone head
- ② LED liquid crystal display
- ③ The power switch, touch a seconds can be open or closed (including mute setting).
- ④ Infrared frequency (IR) port
- ⑤ Battery cover

### Changing batteries:

Two alkaline batteries expected about 10 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.



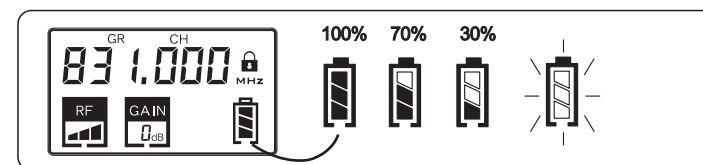
(2) The transmit power adjustment: display power number.



(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.