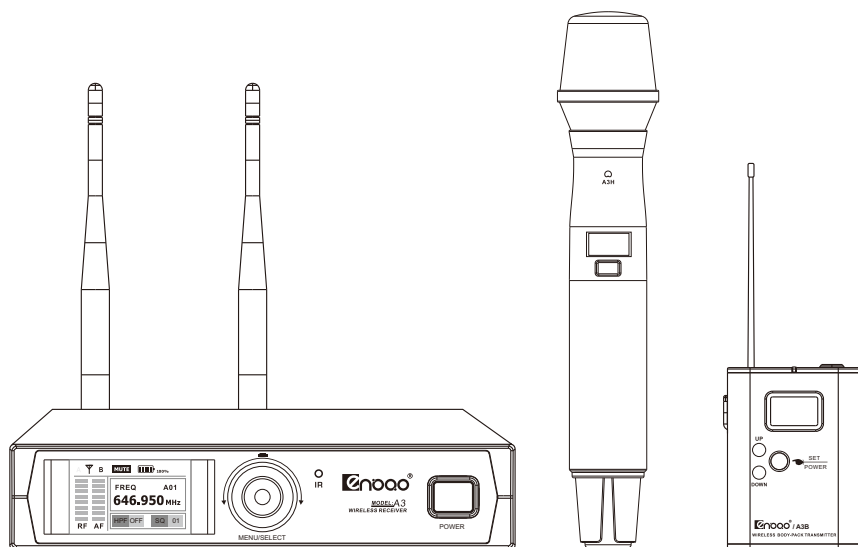




PROFESSIONAL LARGE-SCALE WIRELESS MICROPHONE SYSTEM



Large-scale Performance Flagship A Series

A3 Operation Instruction

Wireless
Your Sound

CATALOGUE

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SAFE INFORMATION

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean with dry cloth only.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as: radiators, stoves or other apparatus (including amplifier) that produces heat.
9. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug the apparatus during lightning storms, or when unused for long periods of time.
12. Refer all servicing to qualified personnel. Service is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. This appliance shall not be exposed to dripping or splashing water and that no subject filed with liquid such as vases shall be placed on the apparatus.
14. Caution-to prevent electrical shock, match wide blade plug wide slot fully insert.
15. Please keep a good ventilation environment around the entire unit.
16. Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

PRODUCT INTRODUCTION

Thanks for using professional large-scale performance A series wireless system with stable performance and solid structure , which adopt world class high end RF&AF chip . Industrial OLED display screen ensure operation in all weather . Bodypack transmitter support bass 20Hz and large dynamic instrument with many patents and special design.

Large-scale performance flagship A series wireless microphone system

Features:

- 1.Design for large-scale show , lecture and art and sport activities.
- 2.Front-panel adopt full-color TFT display screen.
- 3.Rotary button control.
- 4.Pilot frequency squelch technology delete wireless RF interference when transmitter closed.
- 5.Receiver display battery of transmitter.
- 6.Lock function avoid wrong operation.
- 7.Anti-interference frequency can be set and changed , up to 20 sets can be used in the same frequency range without interference.
- 8.Receive signal automatically , eliminate break signal , increased receive distance and stability.
- 9.UHF frequency range , PLL technology.
- 10.Automatically infrared sync technology , connecting transmitter quickly.
- 11.Auto Scan function scan available frequency.
- 12.level receive sensitivity , adjust SQ for different environment.
- 13.Handheld microphone and bodypack use OLED display screen.
- 14.Metal case , elegant design.
- 15.Transmitter use a pair of AA battery.

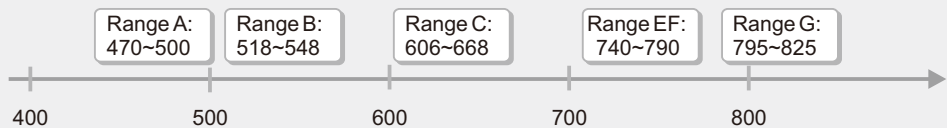
This device has the same frequency range for selection and has the same pre-set frequency channel system.

Frequency pre-set advantage:

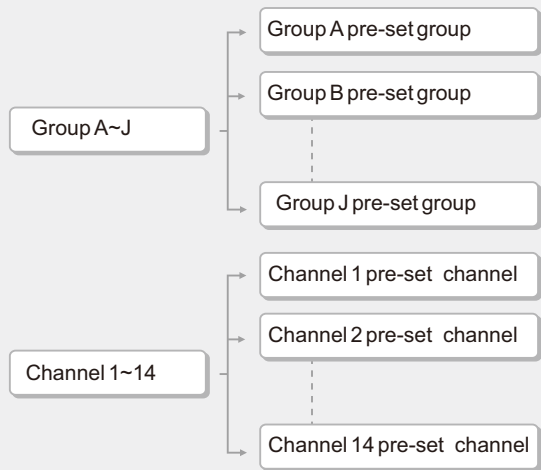
- Transmit channel can be set quickly
- Several transmit channels have no interference (can't adjust each other)

Frequency System

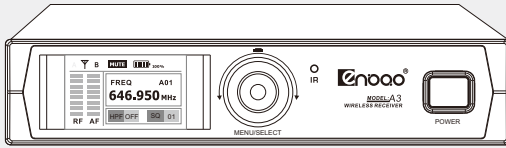
Super frequency has 5 different frequency ranges for AF transmission, each one has 1200 to 2400 flexible frequency, receiver can select the frequency from above range:



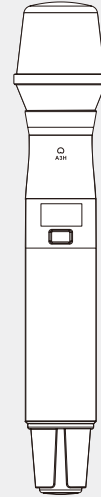
Each frequency range(A-J) has 10 frequency groups, each group has 14 channels:



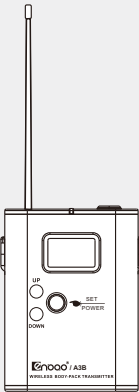
SYSTEM



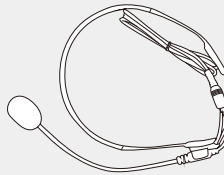
(Receiver)



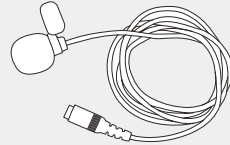
(Handheld transmitter)



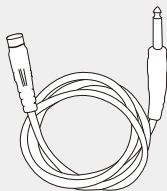
(Beltpack transmitter)



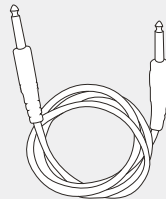
(Headset Mic)



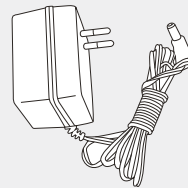
(Lavalier Mic)



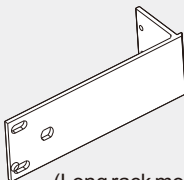
(Audio cable)



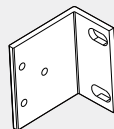
(Guitar cable)



(Power cable)



(Long rack mount)



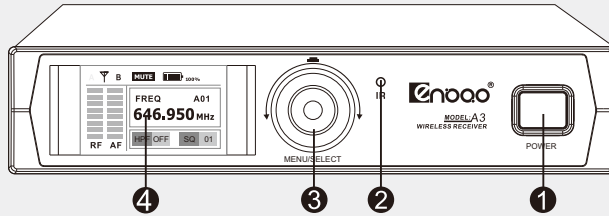
(Short rack mount)



(Connect panel)

RECEIVER DIAGRAM

Receiver Front Panel



1.Power Switch

- Turn on/off receiver
- Stop input and return back

2.IR Sync Indicator Light

3.Rotary Function Knob

Press rotary knob



Rotate rotary button

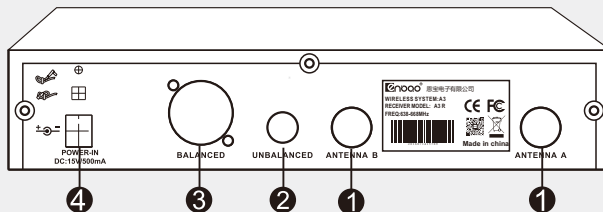


- ▶ Open the menu interface
- ▶ Select the item
- ▶ Store setting and return to main interface
- ▶ Lock
- ▶ Select channel setting interface
- ▶ Switch to last and next item
- ▶ Change each item

4.Full Color TFT Display Screen

- Display specification

Receiver Back Panel



1.Antenna

Antenna A/B BNC socket

2.RF Mixed Output

1/4"unbalanced connector

3.RF Balanced Output

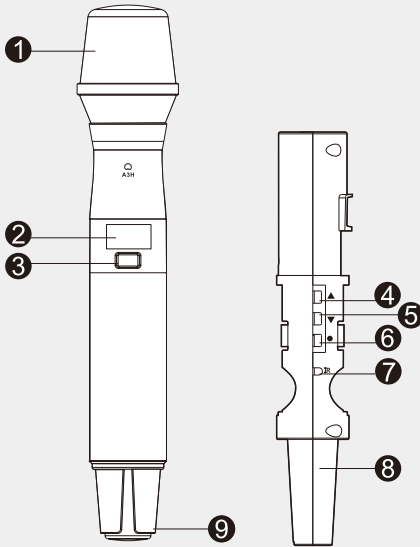
XLR balanced connector

4.Power Supply

External direct current 12V-15V/500mA

TRANSMITTER DIAGRAM

Handheld Microphone



1.Metal Microphone Grill

2.OLED Display Screen

- Display clearly

3.Power/Return/Mute Switch Button

- Turn on/off power supply
- Return main interface
- Mute/unmute

4.Up Button

- Up to select menu

5.Down Button

- Down to select menu

6.Set Button

- Confirm selection

7.IR Set

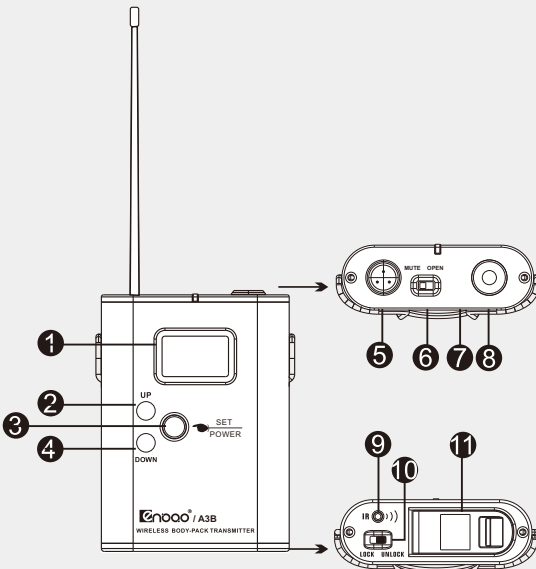
- Receive IR signal from receiver

8.Transmitter Antenna

9.Mic Tube

- (hold the mic far away from bottom of mic tube)

Bodypack Transmitter



1.OLED Display Screen

- Display clearly

2.Up Button

- Up to select menu

3.Power / SET button

4.Down Button

- Down to select menu

5.AF Output Connector

6.Mute Switch

- Push mute switch to mute or unmute

7.Power Indicator Light

- Display battery volume

8.Antenna

9.IR set Indicator Light

- Receive IR signal from receiver

10.Lock Switch

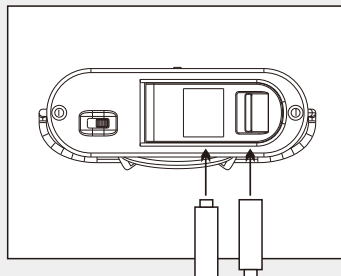
- It is used to lock or unlock bodypack

9.Battery Compartment

- Insert two standard AA batteries here

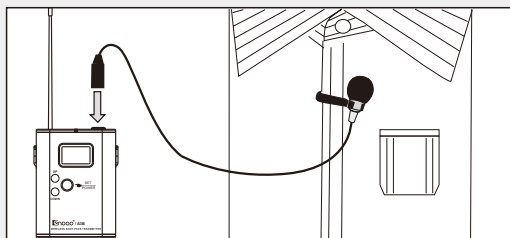
BELTPACK TRANSMITTER MICROPHONE INSTALLATION

1. Slide down the cover then put into the two pieces 1.5V battery if LED lights up, it means install correct and power on.



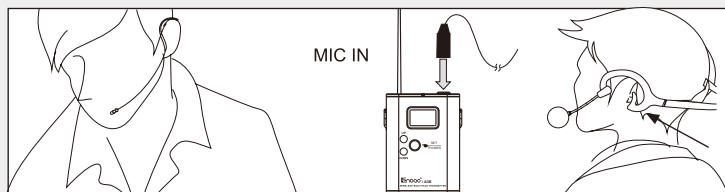
2. Lavalier Microphone

Clamping the microphone to tie or collar, then connecting the microphone plug to beltpack output socket and finished installation.



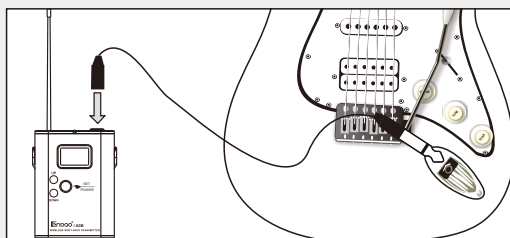
3. Headset Microphone

Connecting the microphone plug to beltpack output socket and finish installation.



4. Guitar Cable Connection

Plug the guitar cable into bodypack, plug the other side of cable into pickup connector.

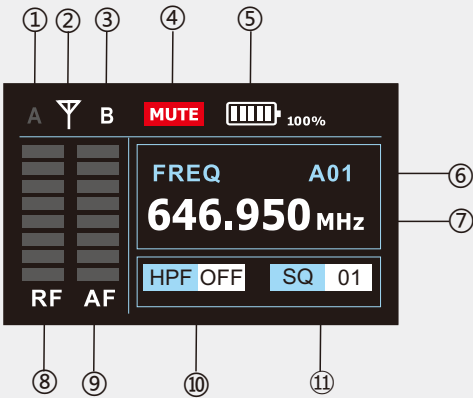


Be Careful To Damage Hearing And Equipment!

Receiver have a big noise when plug and pull out the the connecting cable during install bodypack. Turn down volume before installation. High noise will damage hearing and overload loudspeaker.

RECEIVER DISPLAY

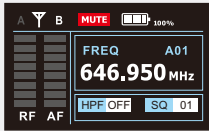
Display receiver specification and the important information of receiver and transmitter operation status.



Display	RX/TX	Explanation
1.Antenna A	Receiver	Antenna input port A is activate
2.Antenna sign	Receiver	Antenna signal sign
3.Antenna B	Receiver	Antenna input port A is activate
4.Mute sign	Receiver/Transmitter	AF signal mute
5.Battery	Transmitter	Display transmitter battery volume , display low battery under low voltage
6.Group	Receiver	Pre-set group number
7.Frequency	Receiver	Setting frequency
8.Wireless signal level	Receiver	Receiving wireless signal strength
9.AF level	Receiver/Transmitter	Display AF level
10.High Filter switch	Receiver	Reduce pick up noise
11.Squelch	Receiver	Display SQ

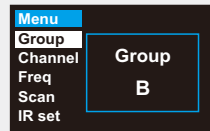
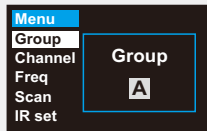
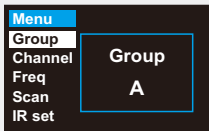
RX OPERATION INSTRUCTION

Turn on/off receiver



- ▶ Long press power switch button, receiver display information.
- ▶ Long press power switch button again, receiver turn off.

Group setting



- ▶ Press rotary button into menu interface.



- ▶ Rotate rotary button to group.



- ▶ Press rotary button to confirm then number flashing.



- ▶ Rotate rotary button, select group A to J.



- ▶ Press button confirm and store.

Channel setting



- ▶ Press rotary button into menu interface.



- ▶ Rotate rotary button to Channel.



- ▶ Press rotary button to confirm then number flashing.

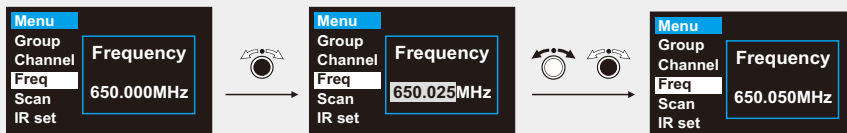







- ▶ Rotate rotary button, select from 01 to 14, press button to confirm selection.



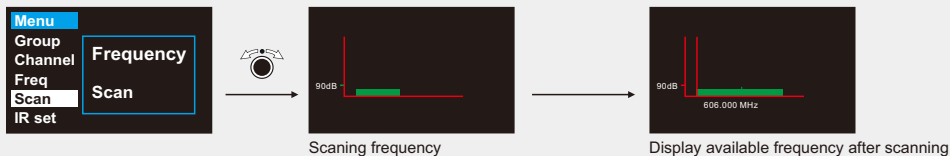
- ▶ Press button confirm and store.





Frequency setting



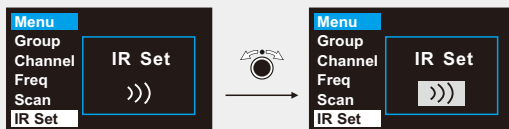
-  ► Press rotary button into menu interface.
-  ► Rotate rotary button to Freq.
-  ► Press rotary button to confirm then number flashing.
-  ► Rotate rotary button to adjust frequency with 25KHz stepping, press button to confirm selection.
-  ► Press button confirm and store.




Scan and select frequency



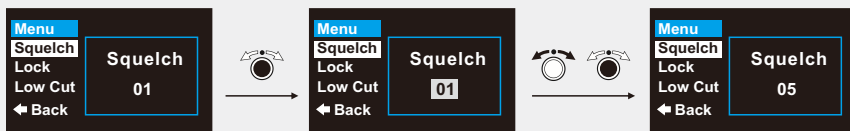
-  ► Press rotary button into menu interface.
-  ► Rotate rotary button to Scan.
-  ► Press rotary button start to scan (check picture 2) and search the free frequency automatically, (check picture 3) display available frequency. Now rotate rotary button to select free frequency.
-  ► Press button confirm and store.






IR set



-  ► Press rotary button into menu interface.
-  ► Rotate rotary button to IR Set.
-  ► Press button confirm selection, then signal light is flashing, connecting successfully when it keeps lighting, the light goes out after finished sync connection.

Squelch setting



-  ► Press rotary button into menu interface.
-  ► Rotate rotary button to Squelch.
-  ► Press rotary button to confirm then number flashing.
-  ► Rotate rotary button select from 01 to 10 with 1dB stepping ,
-  ► Press button confirm and store.

When transmitter closed or transmitting power not high enough ,
Squelch can restrain noise . Squelch setting should be ensure
the receiver don't have a big noise when turn off transmitter .



- When receiving environment is bad , higher squelch setting will
be reduce receiving range.

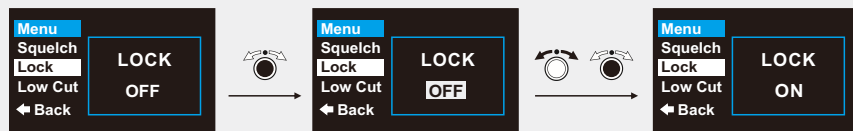







Be Careful To Damage Hearing And Equipment !

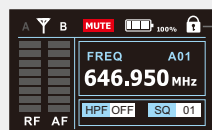
Closed squelch or setting squelch too low will be causing big noise.
High noise will damage hearing and overload loudspeaker.




- Ensure squelch keep turning on.
- Ensure AF output level adjust to be lowest before setting squelch.
- Not allow to change squelch during transfer.

Lock setting

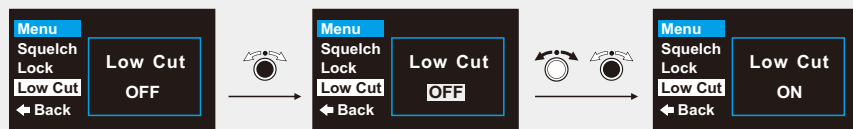







-  ▶ Press rotary button into menu interface.
-  ▶ Rotate rotary button to Lock.
-  ▶ Press rotary button to confirm then number flashing.
-  ▶ Rotate rotary button to select on or off.
-  ▶ Press button confirm and store.




-  ▶ After setting lock function , main interface display lock sign  , you should have to turn off lock when you use it.
-  ▶ Long-press rotary bottom to turn off lock function.

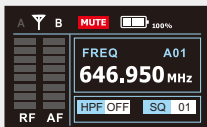
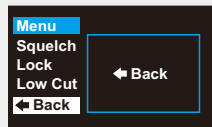
Setting high pass-filter



-  ▶ Press rotary button into menu.
-  ▶ Rotate rotary button to Low Cut.
-  ▶ Press rotary button confirm selection , on/off flashing.
-  ▶ Rotate rotary button to select on or off.
-  ▶ Press rotary button to store it.

-  • High pass filter function is to reduce the low frequency pick up by transmitter to receiver , which can eliminate stage rumble .

Return



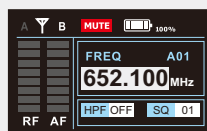
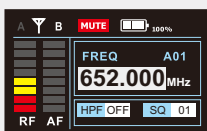
► Select Back in the menu , and press rotary button to confirm selection.



► Return back the main interface after confirm the selection.

Ps: Return back to main interface automatically when stop operation after 15 seconds.

Porject debug mode



► Press POWER button and rotary button at the same time until it display logo , then start to adjust it.



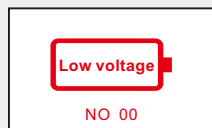
► Rotate the rotary button to adjust frequency by stepping 25KHz .
If the RF line beating that means this frequency have interference so that you choose next available clear frequency and confirm selection .



BE CAREFUL FOR DAMAGE HEARING AND PRODUCT !

When using prject mode , RF interference will make mute function be useless and cause big noise . Please turn down the volume , large noise will damage hearing and overload loudspeaker .

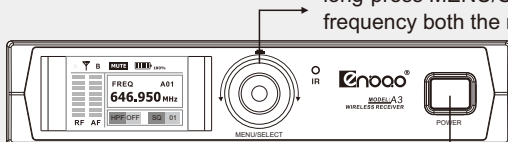
Low voltage



► Display screen have low voltage flashing as left picture , it should replace the battery.

SHORTCUT OPERATION

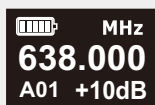
1. IR set function on the A3 receiver
long-press MENU/SELECT button can synchronize the frequency both the receiver and transmitter quickly



2.No matter in which menu, you can return to the main performance display quickly when press the power button on the A3 receiver

HANDHELD MICROPHONE OPERATION INSTRUCTION

Turn/off Transmitter

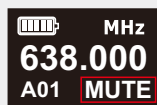
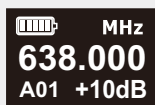


► Long-press switch button to turn on transmitter display information interface , (Only display number after 3 second without operation)

► Long press power switch button again, Transmitter turn off.

Ps : press switch button in the menu interface will be turn back to information interface.

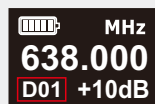
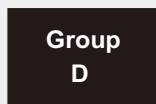
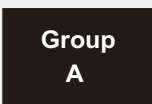
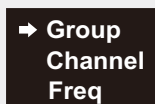
Setting mute



► Press switch button in the main interface to start mute.

► Press switch button again to cancel mute .

Group setting



► Press set button into menu to select group.



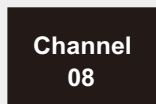
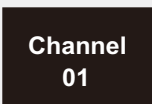
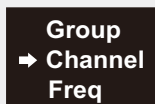
► Press set button confirm selection.



► Press up and down button to select group A to J.

► Press set button to confirm selection , display group information in the main interface.

Channel setting



► Press set button into menu to select channel.



► Press set button confirm selection.



► Press up and down button to select channel 01 to 14.



► Press set button to confirm selection , display group information in the main interface.

Frequency setting



- ▶ Press set button into menu to select frequency.
- ▶ Press set button confirm selection.
- ▶ Press up and down button to select frequency by stepping 25Khz.
- ▶ Press set button to confirm selection , display group information in the main interface .

Gain setting



- ▶ Press set button into menu to select Gain.
- ▶ Press set button confirm selection.
- ▶ Press up and down button to select 3 level including -10dB , +00dB and 10dB.
- ▶ Press set button to confirm selection , display group information in the main interface .

Ps: over +10dB will cause signal over adjustment and AF distortion , it can adjust Gain according to the user sound pressure.

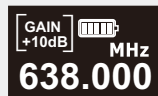
Lock setting



- ▶ Press set button into menu to select Lock.
- ▶ Press set button confirm selection.
- ▶ Press set button to confirm selection, handheld microphone locked , Lock sign display in the main interface.
- ▶ Long-press set button cancel lock , lock sign disappear.

BODYPACK MICROPHONE OPERATION INSTRUCTION

Turn/off Transmitter



NO 01



- ▶ Long-press switch button to turn on transmitter display information interface , (Only display number after 3 second without operation).
- ▶ Long press power switch button again, Transmitter turn off.

Mute function



MUTE OPEN



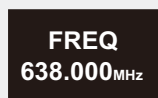
- ▶ Push press button to mute to start mute , main interface have the sign.

MUTE OPEN



- ▶ Push press button to mute to cancel mute , the sign disappear.

Frequency setting



- ▶ Short press switch button into frequency.



- ▶ Press up an down button to select frequency by stepping 25KHz.

Gain setting



- ▶ Short press switch button into Gain.



- ▶ Press up and down button to select 3 level including -10dB , +00dB and 10dB.



- ▶ Press set button to confirm selection , display group information in the main interface.

Ps: over +10dB will cause signal over adjustment and AF distortion , it can adjust Gain according to the user sound pressure.

SUGGESTION AND TIPS

In Order To Reach The Best Receiving

Transmitter effective receiving range depend on operation environment and condition. Maybe in 10 meters or 150 meters.

When receiving condition is not good , receiver should connecting two separate antenna by the antenna cables.

Receiver and transmitter should be keep at least 5 meters distance which can avoid wireless signal of receiver over modulation.

Receiving antenna should keep at least 50cm distance with steel plate or wall and adjust the antenna with V shape.

Multi- Frequency Operation

Every channel from A to J all including anti-interference pre-set frequency (fixed frequency).

Select the available frequency from frequency data (factory frequency range).

Setting frequency between 1 to 14 in frequency range (check page 10).

Each transmitter should keep at least 20 meters distance to avoid transmit interference.

Please using ENBAO recommended multi-frequency equipment application.

FREQUENCY GROUP USING METHOD

Pre-Set Group Channel Method

Step 1: Open all the receiver and keep all transmitter closed.

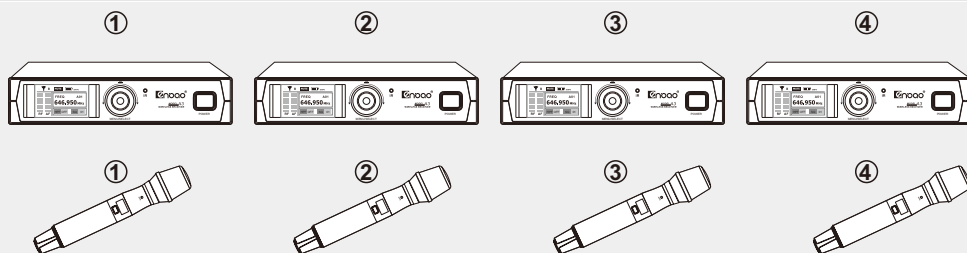
Step2: Select Group in the receiver menu and adjust all the receiver in same group , such as Group A (Pre-set totally group A to J).

Step 3: Select Channel in the receiver menu and adjust each receiver in different channel from CH 1 to 14.

Step 4: After above setting then open the transmitter to finished IR connection one by one.

(Ps: If it can not find the ideal frequency in pre-set channel , please do IR set one by one , check page 11).

Multiple Wireless System Frequency Scan



Step 1: Open all the receiver and keep all transmitter closed.

Step 2: Take ① receiver as example , select Scan in the menu to start scanning best frequency.

Step3: Put transmitter RI window close to receiver window(15-30cm) to finished IR connection then press power button back to main interface.

Step4: Keep ① wireless system status to be open and locked , finished Scan setting for the rest wireless system follow above steps.

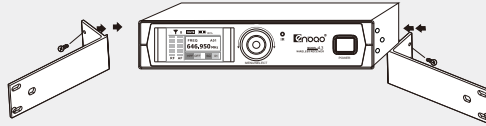
Step5: Finished multiple wireless system scan and setting frequency by following above steps.

(Ps: Transmitter should be far away from the receiving antennas at least 3 meters and transmitter can not place too closed.)

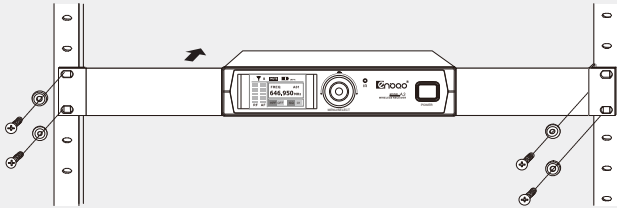
RACK-MOUNT

A3 receiver can be installed into 19 inch flight case for convenient transportation and fixed installation. Install two rack kits in two side of the receiver by screw and ensure the correct position . Put A3 into available space and keep two holes in two side are consist with flight case holes and fixed it by screw. Keep balanced when installing and tighten the screw in order: top left corner →bottom right corner → top right corner →bottom left corner.

Step 1

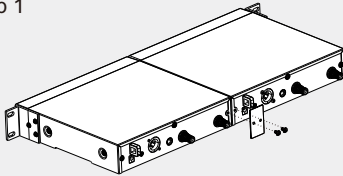


Step 2

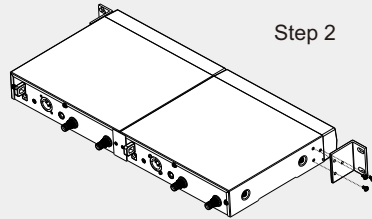


Multiple wireless system installation (Install two sets or more should use connector plate)

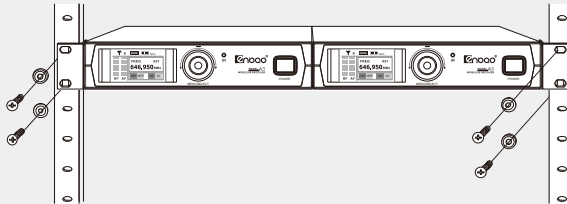
Step 1



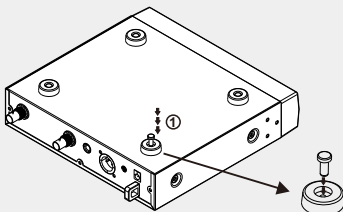
Step 2



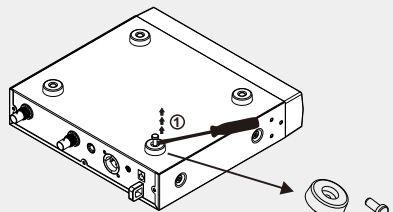
Step 3



1.Under-chassis installation diagram

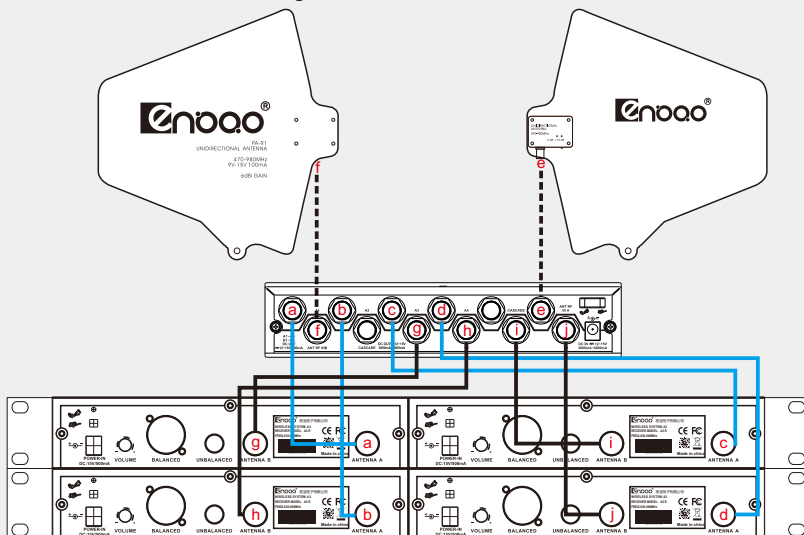


2.Under-chassis take out diagram

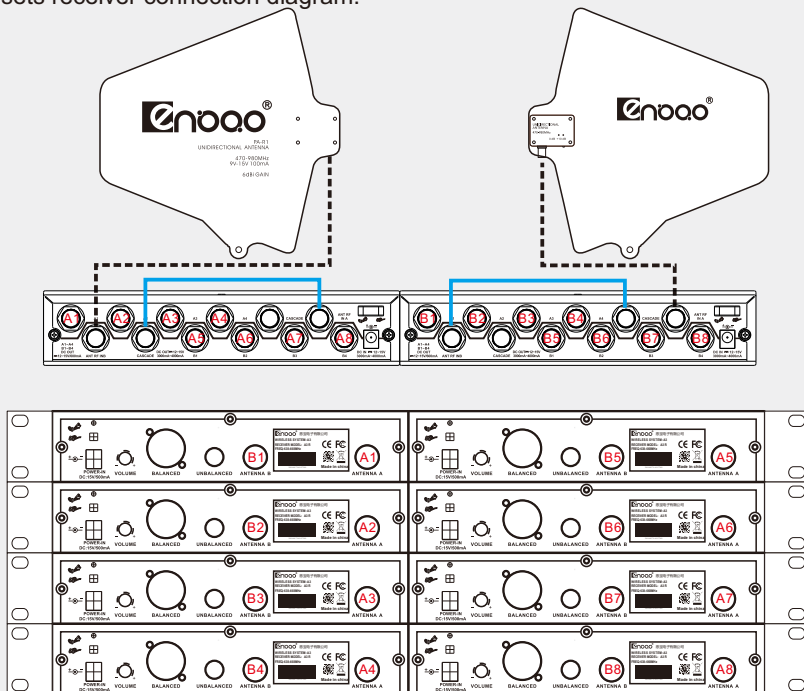


ANTENNA DISTRIBUTOR CONNECTION DIAGRAM

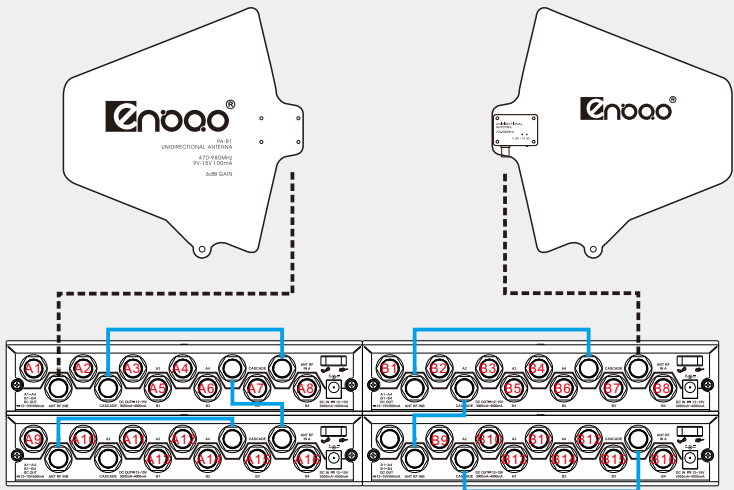
Four sets receiver connection diagram:



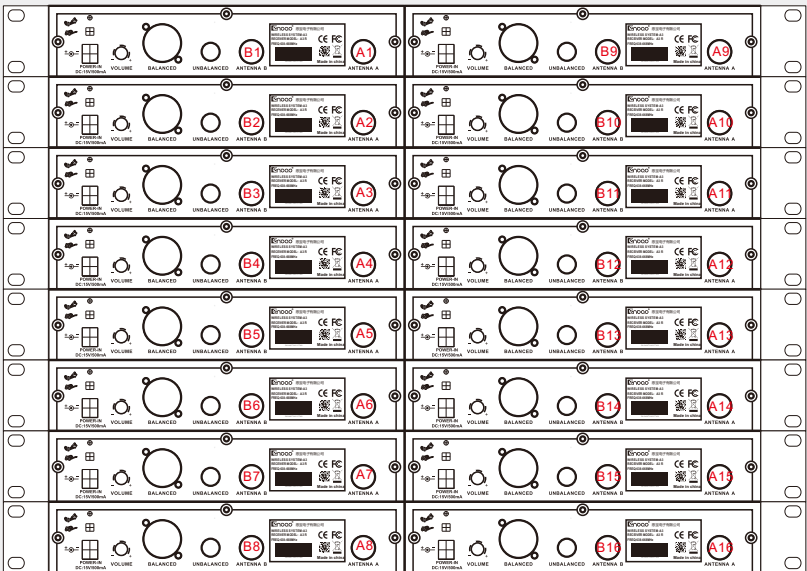
Eight sets receiver connection diagram:



Sixteen sets receiver connection diagram:



Receiver and transmitter should be connected by relative number



SIMPLE FAULT PROCESS

Problem	Solution
No signal for receiving and sending	Battery in transmitter used up or the power of receiver has not connected.
Receiving has no signal of therefore	The frequency is different between receiver and transmitter , or over receiver's range.
Receiving has RF signal but no AF signal	The squelch is too much.
The back ground of AF signal has too much noise	The frequency deviation of transmitter adjusts less or receiving output is too low .And may be there have interference frequency.
AF signal distorted	The frequency deviation of transmitter adjusts more or receiving out put is too high.
Working distance shorter and signal unstable	Receiver's squelch is too much or the antenna setting of receiver unsuitable. And strongelectromagnetic surrounding.
If your trouble not including in mentioned above, don't open this unit and repair by yourself , please contact the local distributor or factory for servicing . We will try our best to assist your withyour needs.	

SAFETY GUIDE

USE-Please don't place the system in which is wet, dire, sunshine, high temperature or with strong electromagnetic. Please unplug the adapter of the receiver and take out the batteries from the transmitter.

CLEANING-Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

POWER-Please make sure the adapter is fits for the voltage, and the batteries are put into the transmitter correctly.

MAINTAIN-Please don't open this unit and maintain by yourself. Any problem please contact the local distributor or factory for servicing we will try our needs.

ACCESSORIES-In order to keep this unit have a perfect working, please use the accessories which supply or approves by manufacturer.

GUARANTEE-This unit is not includes modifying, please don't open and modify it by yourself. If not, you will be losing the right of guarantee.

SPECIFICATION

System

Operation range	100 meters
AF response	20Hz-18KHz
T.H.D	<1% (@AF1 KHz, RF46 dBu)
Dynamic range	>100dB
S/N ratio	>90dB
Pilot frequency	32.768KHz

A3 Receiver

AF output level	Unbalanced+9dBu/Balanced +9dBu
AF output impedance	Unbalanced810 Ohms/ Balanced 240 Ohms
Sensitivity	-100dBm/30dB sinad
Image rejection	>50dB
Operation Voltage	15V
Dimension	215*215*45(mm)
Weight	0.95kg

A3H Transmitter(Handheld)

Capsule	Dynamic
Output Gain Range	30dB
RF output power	10mw/30mw optional
Battery	2*AA
Operation time	15 hours
Dimension	36*245(mm)
Weight	0.28kg

A3B Transmitter(Bodypack)

Input	Mini XLR(P3)
Input impedance	1 M Ω
Output Gain Range	30dB
RF output power	10mw/30mw optional
Battery	2*AA
Operation time	15 hours
Dimension	110*65*22(mm)
Weight	0.11kg



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As the product is constantly improving, these won't be any further notice for the improvement.
Actual product will not be as pictured.