

UHF Wireless Amplifier

User Manual



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Safety Guidelines

Important Information

This manual contains notices which you should observe to ensure your own personal safety, as well as to protect the product and connected equipment. They are marked as follows according to the level of danger.

Warning Indicates that death, severe personal injury or substantial damage to property will or can result if proper precautions are not taken.



Notes Indicates that personal injury or property can result if proper precautions are not taken.



Warning



High voltage inside. Only qualified personal should be allowed to maintain, repair and refit the machine to avoid the happenness of some abnormal situations and other dangers.



If not using, please plug out the power outlet of the receiver and shut off the AC power supply.



When being short of voltage, the receiver should be recharged in time otherwise it will influence the life span of the accumulator inside.



When plugging out the power line of the receiver, press the power pin tightly and then plug. Do not plug the power line directly to avoid the snapping of the power line.



Do not knot or break the power line, so as to avoid the generation of fire and electrocute.



If getting drenched or some liquid flowing into the machine, the machine should not be operated. Please return the machine to the qualified personal for test.

Notes



Please clean the machine by dry soft cloth. Do not use gasoline, diluent or other chemical products.

If planning no usage of the transmitter or the microphone for months, take out the batteries to avoid the leaking of the battery attaint the transmitter.

No using of the receiver for long time, please recharge it full once three month. Please do not knot or pull the line when Lavalier Mic or Headset Mic is used.

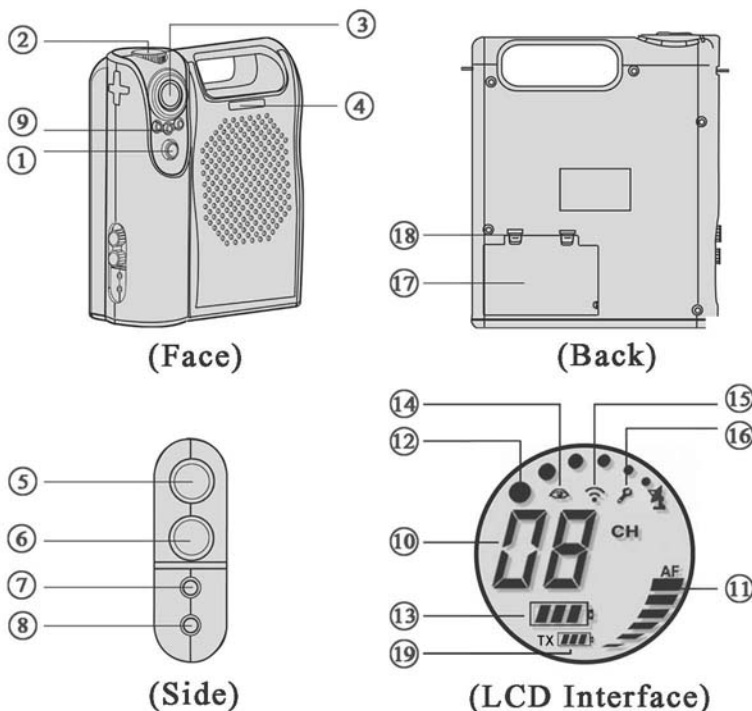
I. Main Features:

- Adopting UHF system, 700-960 MHz professional frequency.
- PLL circuit design, having 32 channels to change.
- LCD can display RF level, AF level, channel value, frequency value, battery life of the receiver, battery life of the transmitter.
- Auto-searching non-interfering channel to ensure the using channel without any interfering.
- Frequency channel adjustment communicates with the transmit by the infrared wireless transmission methods.
- Adopting pilotone & noiselock technology, without any interfering noise.
- Transmitter uses ordinary or rechargeable battery "AA", one unit for handheld microphone and two units for body pack transmitter.
- Adopting the built-in antenna design, the receiver alarming under low-voltage supply, and being powered off automatically under low-voltage power to protect the life span of the accumulator inside.
- Built-in switching power supply of high power and battery with large capacity are suitable for all kinds of situations.
- Multi-receivers of the same frequency channel can be used simultaneously to output more large volume.
- Adopting advanced SMT automatical technology to ensure the quality.
- Audio output and externally connected acoustics make the tune better.
- Audio input externally connected audio inputs, such as microphone, walkman and CD players can be used with wireless microphone simultaneously.
- Tonality rotary design makes the audio output effect the best.
- Being convenient for shoulder-hanging, handheld and placing on the desk.

APPLICATION:

- Amplifying in the teaching inside or outside classroom of the schools.
- Amplifying in the interpretation in outside activities and picnics of the schools or the departments.
- Amplifying in sales promotion, propaganda and popularizing activities of commercial enterprise.
- Amplifying in the lectures or the temporary congregations inside, in the street or on the square of the departments.
- Amplifying in the interpretation in the exhibition, temporary direction of the traffic, some activities of communities.

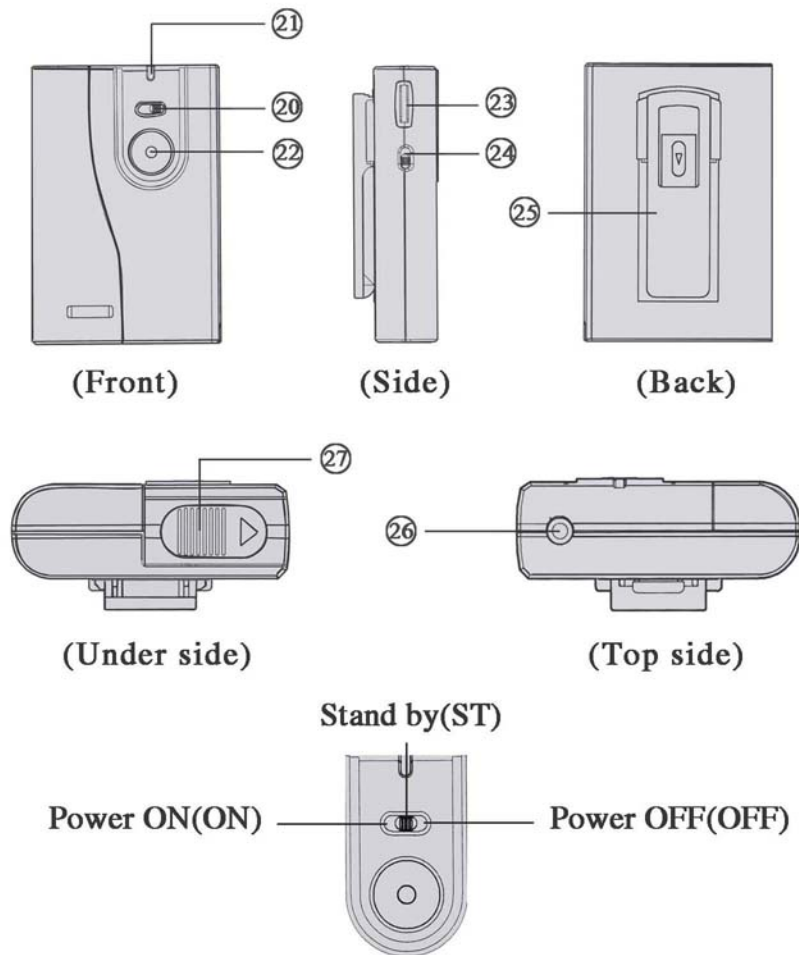
II. Part Names and Functions of the Receiver(AUR210):



- ① Power Switch
- ② Main Volume Control
- ③ LCD Interface
- ④ Infrared Wire Interface of the Receiver
- ⑤ Tone Control
- ⑥ Volume Control of Auxiliary Input
- ⑦ Auxiliary Input Jack
- ⑧ Auxiliary Output Jack
- ⑨ LCD Function Setup Key
- ⑩ Frequency / Channel Value Display
- ⑪ Audio Level (AF) Display
- ⑫ Signal Strength (RF) Display
- ⑬ Battery Status Display of the Receiver
- ⑭ Auto-search Open Channel Indicator
- ⑮ RX-TX Infrared Link Indicator
- ⑯ Manual Channel Select Indicator
- ⑰ Power Wire Compartment
- ⑱ Fasteners of Power Wire Compartment
- ⑲ Battery status Display of the Transmitter

III. Part Names, Functions and Battery installation of the Body Pack Transmitter(AUT210):

1.Part Names and Functions



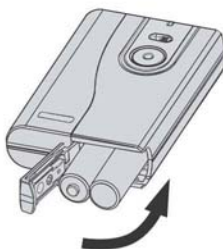
- ②0 Power Switch of the Transmitter
- ②1 Power Indicator of the Transmitter
- ②2 Infrared Wire Interface of the Transmitter
- ②3 Volume Control
- ②4 Volume Lock
- ②5 Strap Clip
- ②6 Lavalier Microphone Jack
- ②7 Battery Cover

2. Battery Installation

- Press the Battery Cover ⑳ outward as indicated by the embossed arrow to pop open the battery compartment.



- Insert the batteries. (Pay attention to the correct polarities). Cover the battery cover in the direction of the arrowhead in the diagram.



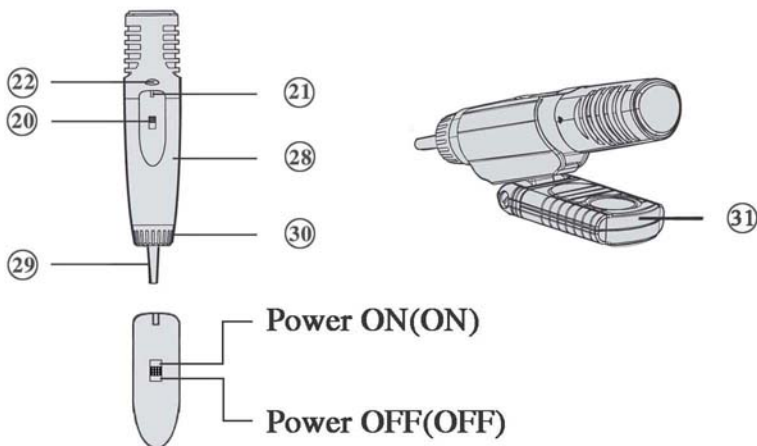
- Close and slide the battery cover back to the locked position.



(Diagram 1)

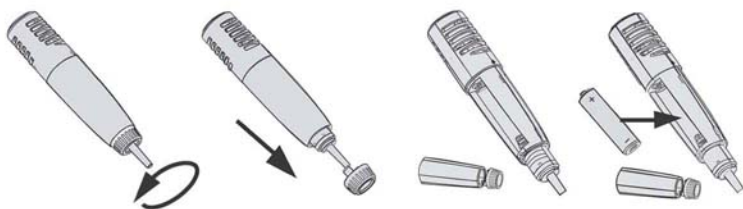
IV. Part Names, Functions and Battery Installation of the Handheld Microphone(AUH210):

1. Part Names and Functions



- ⑳ Microphone Power Switch
- ㉑ Microphone Power Indicator
- ㉒ Microphone Infrared Wire Interface
- ㉓ Aluminum Shell
- ㉔ Antenna
- ㉕ Locking Rotary
- ㉖ Bracket Connection

2. Battery Installation



- Rotate the Aluminum Shell ㉓ at the transmitter's base by rotating counter-clockwise.
- Insert the batteries.(Pay attention to the correct polarities.)
- Replace the cover and rotate clockwise into locked position.


V. Operating Instructions of the Receiver:

- Press the power switch ① and turn on the receiver.
- At this time the LCD will light and display the frequency channel value ⑩, the battery voltage state ⑬ etc., and so on information.



- Adjust the volume switch ② to a desired level.



※The LCD being off or the battery indicator ⑬ "  " being flashing means the power is low. Please charge it before further usage.

※ When using inside, this machine can be connected into the power, charging and amplifying at the same time.

VI. Operating Instructions of the Bobby Pack Transmitter:

- Battery Installation (As in Diagram1).
- Insert the lavalier microphone into the microphone jack ⑲ of the transmitter.
- Adjust the transmitter switch ⑳ to ON. The indicator ㉑ will light. When it is in green, it means working properly.
- Space the microphone about 6-12 inches from the mouth for best sound.
- To adjust the transmitted volume level for the best audio, please adjust Volume Control ㉒ and Volume Lock ㉓. If the Mic volume is too low, press Volume Lock ㉓ to " H " side and adjust Volume Control ㉒ to a suitable space. If the Mic volume is too high, press Volume Lock ㉓ to " L " side and adjust Volume Control ㉒ to a suitable space.

- ⚠️ ※When powering on if the power indicator ⑳ is off or flashing, which means the batteries are having no charge, Please change the batteries in time.
- ※If the power indicator ⑳ is flashing in red all the time, which means the batteries being in low-voltage, please change the batteries in time.
- ※If the power indicator is in green, it means it works properly.
- ※If the power switch is "ST", then the receiver and the system will be mute and without any output.
- ※To be sure that the distance between transmitter and receiver is over than 3m to avoid whistling.

VII. Operating Instruction of Handheld Microphone(AUH210):

- Battery Installation(As in Diagram 2)
- Adjust the power switch of the microphone ㉔ to ON and at this time the indicator ㉕ will light. When it is in green, it means working properly.
- ※ Its usage instructlon is the same as body pack transmitter' s.

VIII.Frequency Channel Adjusting Methods:

Method1:Auto-searching Non-interfering Frequency Channel.

Step1.Change the Channel of Receiver

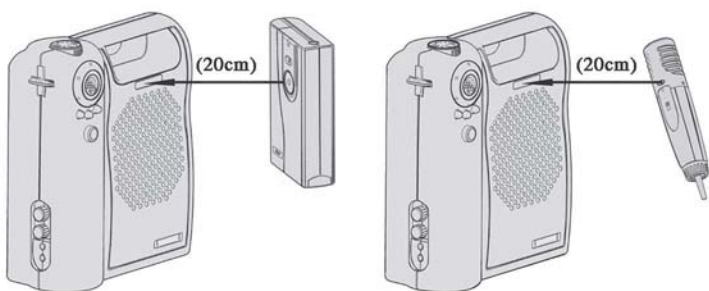
- Continuously press OK for 3 seconds, and at this time "👁️" will appear and flash on the screen. (As in the following Diagram) Release pressing OK. The receiver will go into Auto-searching Status. When you hear the buzzer sound continuously, it means that the receiver has already found a non-interfering channel.



- ⚠️ Note: By this step, if you do not want to carry out the next step, power off the receiver and then power on. The receiver will return to the previous channel.

Step 2. Change the Channel of Transmitter Simultaneously

- After the receiver's channel has been selected as above, and the receiver is still buxxing, hold the infrared wire interface ⑳ of the transmitter (AUH210 or AUT210) several inches from the infrared wire interface ④ of the receiver. Then turn on the power switch ㉒ of the transmitter and wait for the stopping of the buzzer. When the buzzer sound stops, it means that the channel frequency is changed successfully. If the buzzer sound does not stop, it refers to unsuccessful changing frequency. Power off the transmitter and then open it again.



(Figure3)



- ※ When the buzzer stopping sounding, please take the transmitter far away from the receiver to avoid the scream, or adjust the volume control to the minimum when the infrared wire coding.
- ※ The buzzer doesn't stop beeping for 2 seconds after switching ON the power of the transmitter, which means the frequency channel values isn't changed successfully. Please switch off the power of the transmitter and adjust the infrared interface, the distance and the related position between the receiver and transmitter, and then switch on the power again.
- ※ When changing the frequency channel value by the infrared wire, please avoid in bright sunlight as it may effect the infra-red data transfer.
- ※ When changing the frequency channel by the infrared wire, never shake to avoid the deviation from the range of the infrared wire sending and receiving.

Method 2. Select Frequency Channel by Hand:

Step 1. Change the Frequency channel of Receiver

- Press "▶" for three seconds to enter into the function setup model.



- Select the mark "🔑" by using "◀" or "▶".



- Press "OK" to select the channel displayed. It will change every time "OK" is pressed.



- Select the mark "📶" by using "◀" and "▶" and Press "OK", the buzzer will sound continuously. Wait till this frequency channel value is written into the wireless microphone or the transmitter as above.



Step 2. Change the Frequency channel of Transmitter. The same method as step 2 of Method 1.

IX. Switching Display between Channel and Frequency:

Press "◀" and "▶" at the same time, the LCD displaying will switch between channel and frequency.



channel
display



frequency
display

X. Operating instructions of the Auxiliary Equipments:

A. Operating instructions of the Audio Input

- Insert the audio input, such as wire microphone, walkman and CD player into the auxiliary input hole ⑦.
- Adjust volume control ⑥ of the audio input .

B. Operating instructions of the Audio Output

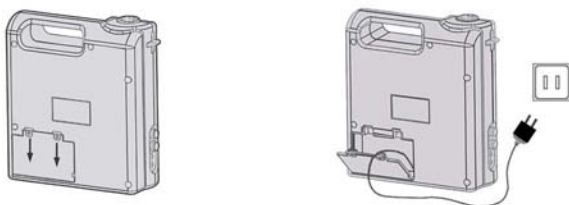
- ⑧ is the output jack of the audio signal and can be connected with amplifying and recording equipment.
- ※ Main Volume rotary can control the audio output volume.

C. Methods of Multi-amplifying the VOLUME

- Users can use a wireless microphone and multi-receivers of the frequency channel at the same time, when it is needed to amplify in a hall or a square.
- Using the audio output function, it can be connected with an acoustics of higher power to amplify.

XI. Battery Recharging:

- Press the fastener of power wire compartment ⑱ in the direction of the arrowhead as the following . The back cover of the power wire will be sprung out. Take out the power wire and connect with the AC power, and the battery is recharged without the need to press the power switch.



- ※ This machine will automatically be recharged either ON or OFF of the power. The LCD will have the recharging prompt when the power is ON.

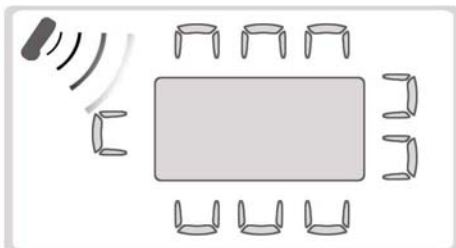
This machine adopts the intelligent recharging methods, It can be used after recharging 6 to 7 hours.



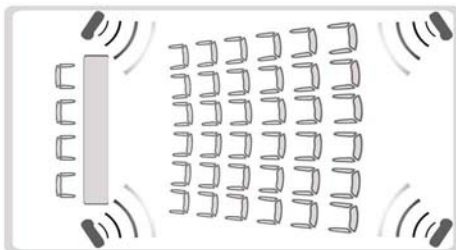
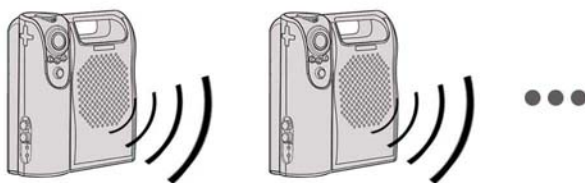
Long time no using, the battery must be charged fully once every three months. Long time no using, please disconnect the AC power.

When the machine is short of voltage, please recharge on time. Otherwise it will seriously affect the life span of the accumulator

Single Unit Amplifying



Multi-Unit Amplifying



In big hall, square, when you need to enlarge the voice volume, you can use one transmitter together with multi-receivers of the same channel. Please refer to page 9 for the channel adjusting methods of the receiver.

XII. Main Specifications of the Receiver and the Transmitters:

1.Receiver(AUR210)

Power	Internal Rechargeable Battery DC : 12V 1.9AH
	Internal AC Power : 100V~240V 50HZ~60HZ
Frequency Channel	32 Channels
Frequency Range	UHF 745-754.3MHZ
Reception Mode	PLL Synthesized
AF Output Power	20W(RMS)/4 Ω
Response	50HZ-16KHZ \pm 3dB
Sensitivity	10dBu
Effective Distance	200 Feet
Dimensions(W \times H \times D)	205mm \times 240mm \times 90mm
Weight	2.6kg(with battery)

2. Transmitter

Type	HandHeld Transmitter (AUH210)	BodyPack Transmitter (AUT210)
Power	DC:1.2V or 1.5V \times 1	DC:1.2V or 1.5V \times 2
	One "AA"Battery (alkaline)	Two "AA"Battery (alkaline)
RF Output Power	10mW	10mW
Harmonic Emissions	>50dB	>50dB
Battery Life	About 12 hours ※	About 25 hours ※
Dimensions	ϕ 26 \times 128mm	66mm \times 23mm \times 91mm
Weight	55g(without battery)	80g(without battery)

※ Battery life is determined by its brand and model.

If there will be any change of the technology and specifications for this series of products, we won't notify you separately.

UHF Wireless Amplifier

Tips To Obtain the Best Results

- Use only the fresh alkaline batteries. Do not use “general purpose” (carbon-zinc) batteries.
- Turn the transmitter off when not in use. Remove the battery if the transmitter is not to be used for a period of time.
- A receiver cannot receive signals from two transmitters at the same time.
- The power switch on the transmitter has three positions: “ Off ”, “ Standby ” and “ On ”. In the middle “ Standby ” position, the transmitter sends only RF to the receiver; the audio source is turned off.
- Turn the transmitter off when not in use. Remove the battery if the transmitter is not to be used for a period of time.

One-Year Limited Warranty

This system is hereby limited to one year warranty from the date of purchase from us. Consequential or incident damages resulting from a breach of any applicable express or implied warranties are hereby excluded. This warranty is in lieu of all other agreements and warranties, general or special, express or implied and no representative or person including distributor, agent or employee is authorized to assume for us any other liability in connection with the sale or use of this product.



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