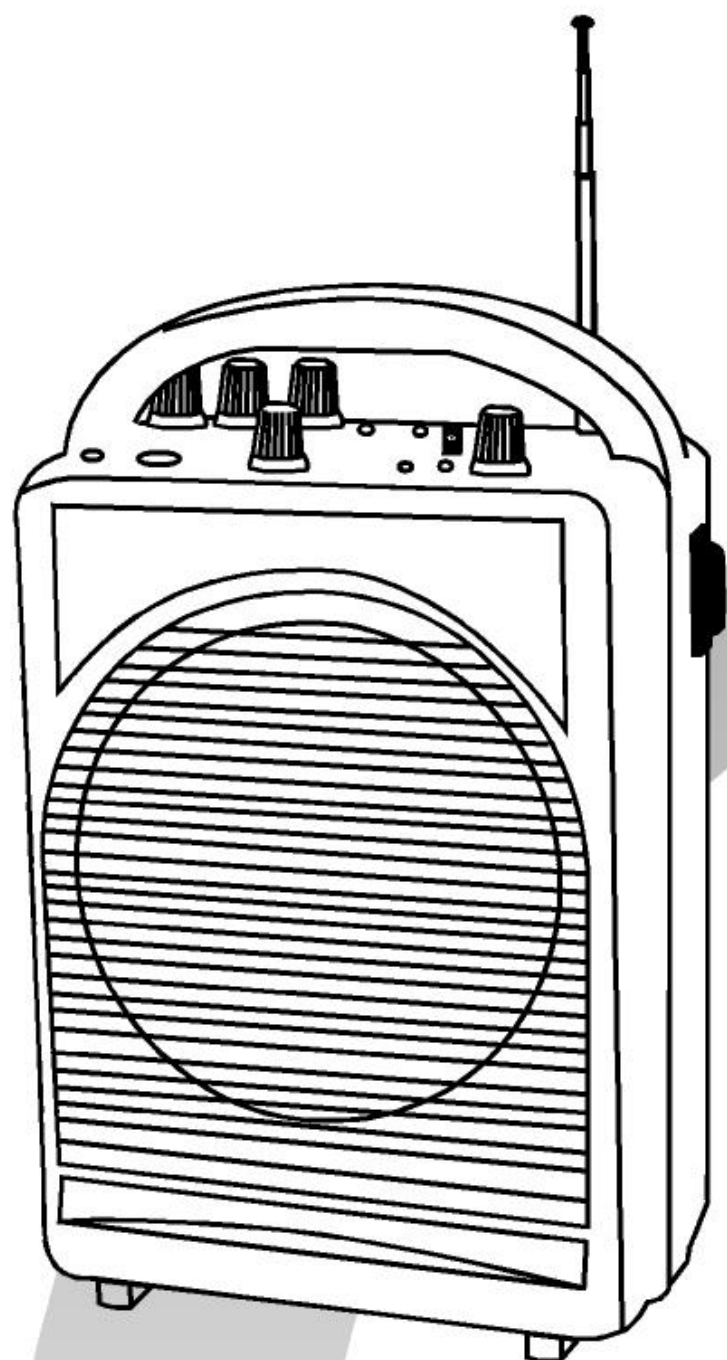


MANUAL

Rechargeable Portable Wireless PA Amplifier



SMD



E/ECO495040519495
2003010802099208

ISO 9001:2000

05404Q11762ROS

We thank you for your purchasing this amplifier system. Before start to use this amplifier system, please read the manual book thoroughly and carefully.

Please keep this instruction book in a safe place after reading for future reference.

WARNING

- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- Dangerously high voltages are present inside the unit. Do not open the casing of the unit. Refer servicing to qualified personnel only.
- Recharge the built-in 12V DC rechargeable battery before any use of the unit.
- To prevent the rechargeable battery from being damaged, make sure that the power ON/OFF switch of the PA system is turned off after each use.

Basic Features of the Amplifier system

- All in one design for easy carrying and portable use.
- Uni-directional Lavalier microphone with high sensitivity for clearly voice transmission and receiving.
- Quartz stabilizer for carrier frequency transmission to avoid interference.
- The system works on both AC and DC. You can also use the built in rechargeable battery or with car cigarette lighter power for 12V DC. (The power cord for car is not included, call us for optional purchase)
- Amplifier working in VHF band and there are 98 different possible channels ready for max a group of 98 amplifiers working at the same place and same time. The carrier frequencies start from 165 MHz to 265 MHz.
- SMT technology and SMD electronic components used in building this amplifier, so the quality is very stable and last long.
- 3 styles of microphones are good for different purposes. You can use the handheld mic, headset mic and Lavalier mic alternatively.
- Tone control.
- Wired/wireless microphone
- Digital echo control
- Aux input for connecting to MD/CD etc.
- 9V common battery or 8.4V rechargeable battery can be used in the wireless handheld microphone and the wireless transmitter.



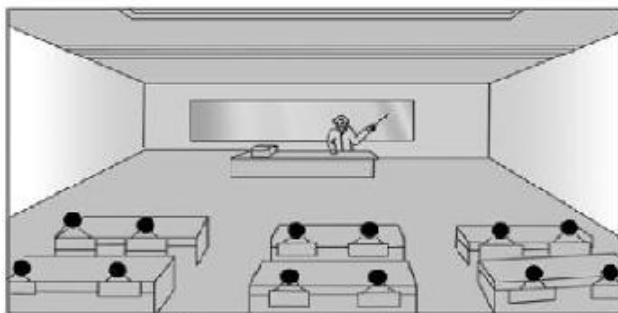
aerobrics

The usage of the amplifier system

This unique designed amplifier speaker system with microphone is perfect for the following applications.

- Used as lecturing amplifier indoor or outdoor.(Especially for dancing and gym teachers).
- A perfect address delivery system for in and out door meeting, tourism and churches.
- It is a good amplifier for interpretation, class teaching and commercial vendor demonstrations.

With this amplifier system, you can make yourself a clear sound and heard from far!



Classroom teaching



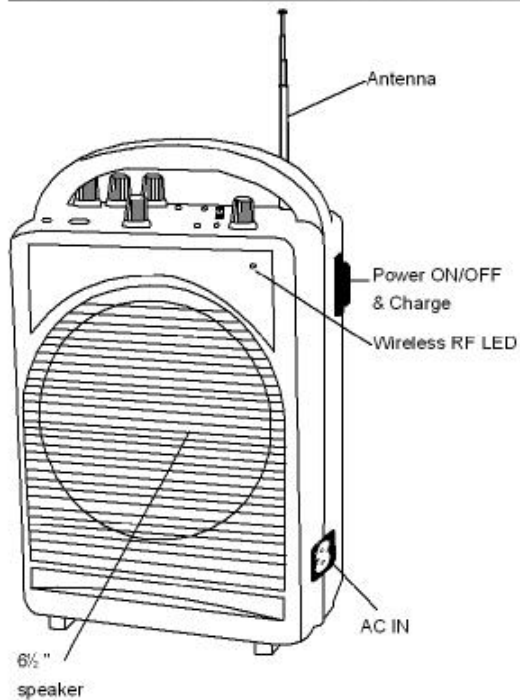
FCC NOTE:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED

BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

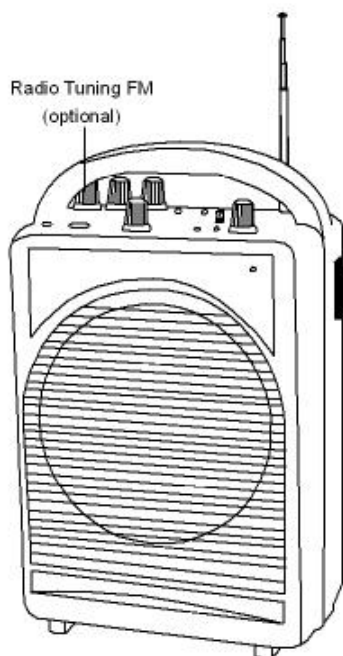
Tour

The system descriptions:

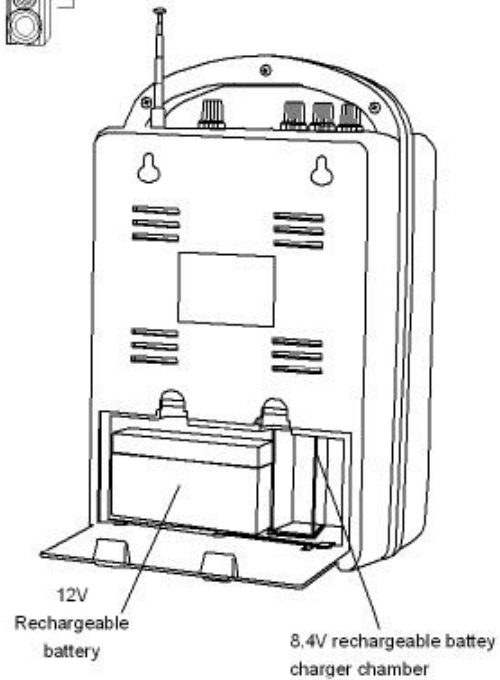
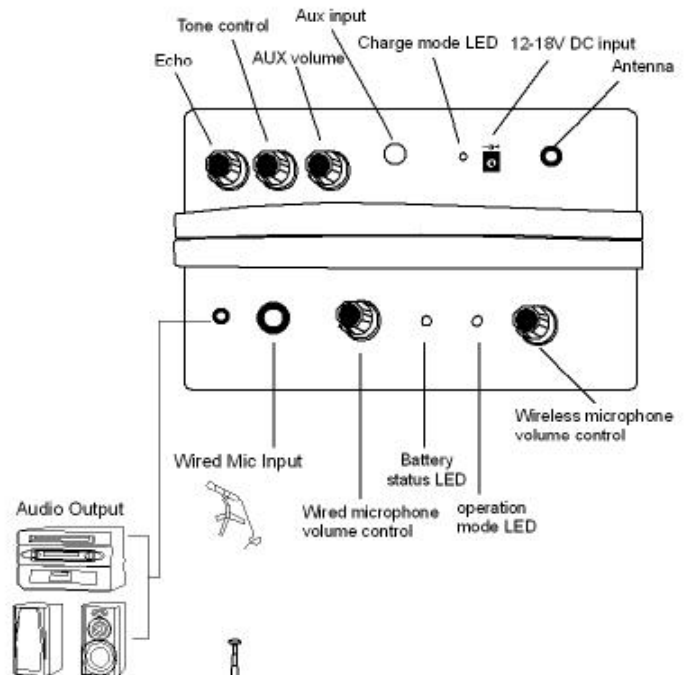


SH-120B Single channel main frame(With Built-in Rechargeable battery)

SH-120D Double channels main frame (with built-in Rechargeable battery)



SH-130 Single channel MAIN FRAME(Built-in Rechargeable battery and with FM)



Lavalier Wireless MIC With transmitter



Headset Microphone

SH-120B/SH-130

(single channel main frame) standard match

1. One set of main frame.
2. A piece of Lavalier wireless MIC with transmitter
3. One headset MIC.

SH-120D(Double channel main frame)

standard match

1. One set of main frame.
2. Two piece of Lavalier wireless MICS with two transmitters
3. Two pieces of headset Mics.

Note: 1. Lavalier or handheld wireless microphones for customer's optional.
2. The same channel microphones can't work at the same time in single channel receiver.

Operation of the system

System operation on AC Power

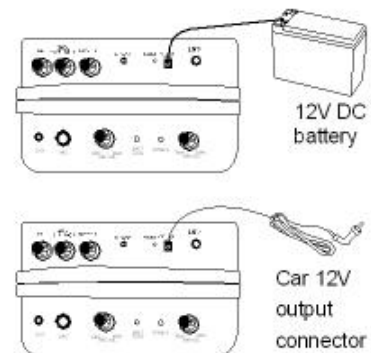
1. Plug in the AC power to the power outlet from a power source. Make sure you are using the correct voltage when you plug in the system to AC power.
2. Switch the main power ON, the LED on the body will be lit. After using the system, make sure to turn the main power off to avoid the battery built-in damaged.
3. When the AC power suddenly cut off, the built-in battery will power the system to work in DC power no delay.
4. Fully hang up the antenna of the main frame to achieve the widest service range of the wireless MIC, or to get the best result of radio. If the main receiver meets the same or similar channel strong interference of the wireless electric wave, it occurs the noisy voice or interruption phenomenon. At this time, adjust the antenna to reduce or delete the interference.
5. Adjust the Volume with the control knob to get the perfect sound.

Caution: You have to plug the system off the main power after each use.

Warning: Be sure to switch off the system main power after use, otherwise the battery will be over discharged and it can damage the Lead Acid rechargeable battery and shorten the battery life dramatically.

System works on DC power

1. Turn on the main switch to ON and the power LED will indicate the battery works well.
2. You may use the car cigarette light power connector to connect the car and the main receiving machine or use an external 12V DC power connector to connect the main receiving machine and the external 12V battery to supply power source to the main receiving machine.



Warning: After use it, please make sure to switch the main power to OFF to avoid battery damaged.

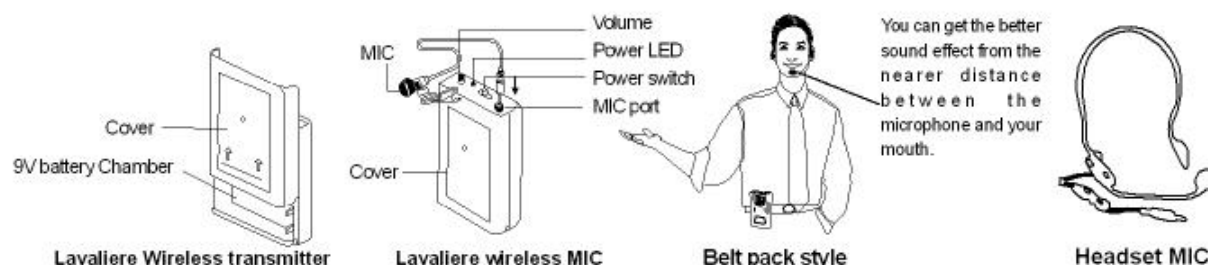
NOTE: The replacement of AC power and recharged is needed in case of weak built-in batteries power and occurrence of noises and interruption of voice while using DC built-in batteries power.

Warning: Be sure to switch off the system main power after use, otherwise the battery will be over discharged and it can damage the Lead Acid rechargeable battery and shorten the battery life dramatically.

How to use the Lavalier Microphone

1. Open the battery compartment by sliding up the cover.
2. Put the battery into the compartment with correct polarity, and close the cover.
3. Plug the Lavalier microphone part to the jack.
4. Switch on the power of the transmitter and when the LED shows, it is ready to work.

5. Be careful to adjust the main control of the transmitter, start from least volume and slowly turn it to a appropriate level to hear your voice clearly and with feed back. The system is ready to use.
6. After use, you have to take the battery out of the transmitter to avoid battery leaking to damage the transmitter.



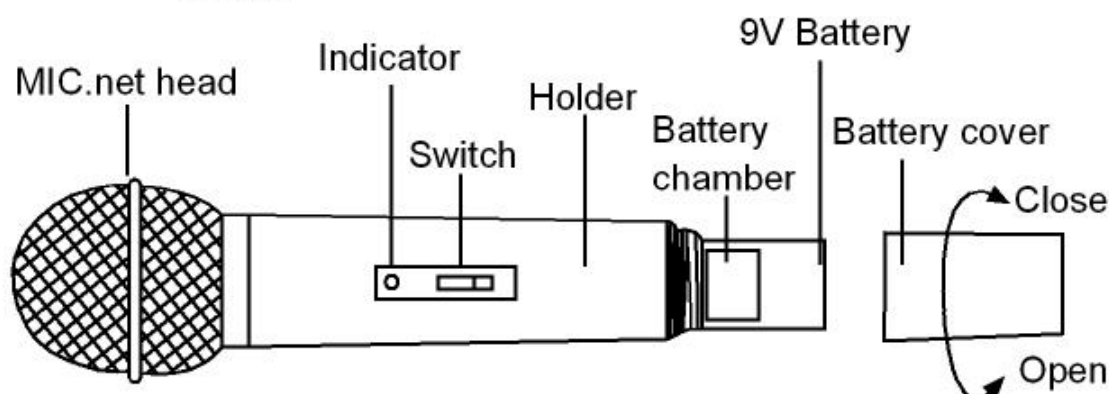
How to use the handheld Microphone

1. Open the battery cover.
2. Put the battery into the compartment and make sure you have a right polarity before you use it.
3. Turn the switch to **ON** and you can use the microphone now.
4. Please take the battery out if you are not going to use it for a period of time.



Don't put the microphone directly towards the horn of the main receiver in near distance, or it will occur screaming feedback.

Caution: If the LED flash up, it shows the battery is good to use. If the LED is on, it shows that the battery is low, you have to change the battery before you can use the system. If the LED does not flash and not on, it shows the battery is dead or polarities are wrong.



Handheld wireless MIC

How to use a wired microphone

Just plug the microphone to the wired mic input jack, you hear your voice immediately.

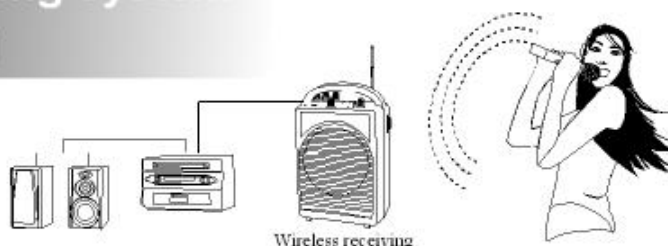


How to adjust the TONE

You may turn the Tone knob to its best position for your satisfactory.

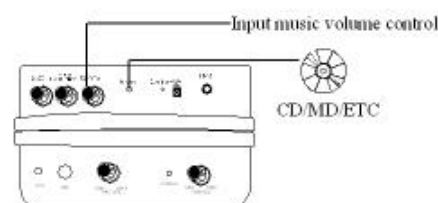
How to connect recording system to the amplifier system

Audio output will go to the recording system and you can record while using the amplifier system.



How to use the Aux Input?

Connect the cable of the CD/MD etc into the Aux Input Jack to get the music sound amplifying. Adjust the volume depend on your requirement.



How to use the digital echo?

The digital echo control knob will adjust the echo to best sound effective result. If screaming feedback occur, adjust the Digital echo in less volume to avoid the feedback.

How to adjust the volume

The speaker volume control will adjust the amplifier volume to its best sound level.

How to use the multiply volume

In order to multiply volume, a or two wireless microphones with several wireless amplifiers of the same frequency can be applied to receive simultaneously in circumstances of large hall or stadium for hundreds or thousands of persons.

How to charge the 9V battery?

Open the battery compartment on the back of the system case. Make sure you have right polarity to put the battery into the compartment.

How to use Radio for Model SH-130 (with radio tuning function for optional purchase)

1. Turn the main power on, then adjust the speaker volume to a proper level.
2. Turn the FM radio to your station. It covers 88-108 MHz.
3. Adjust the volume to a proper sound level.

How to charge the battery built in?

1. It is recommended to charge the battery for the first time use for 8 hours.
2. Turn the main switch to "Charge" and the built-in battery will be charged with a consistent current and voltage.
3. The charging indicator will change to from bright to dim with the battery charging, the LED will die of when the battery is fully charged. When the battery is getting low, you will hear a buzz reminder from the system, asking you to charge the battery immediately. Recharge the battery over 8 hours before you are going to use it. When it is full charged over 8 hours, it can operate for 6 hours.

Caution:

1. If the battery is over discharged, the LED will not work till the battery is rejuvenated. When the voltage is less than 210V, the "CHARGE LED" will not light. When the voltage is more than 230V, "CHARGE LED" will keep light and it is normal. You have to charge the battery when the built-in alarm warns you to charge the battery.
2. If you do not use system for 90 days, we recommend charging the system every three months over 8 hours.

Trouble shooting

If you have any problem with the system, please check the main power and batteries for microphone sets and rechargeable battery built-in. If you are using a new 9V battery, please make sure you have put it in a correct polarity.

For the following problems:

Screaming from the speaker

1. Please adjust the speaker volume to the minimum.
2. Adjust the transmitter volume control to a low level.
3. Change the speaker direction to avoid direct feedback.
4. Turn the TONE to the lowest level.

When you low the volume to a level that no feedback can be heard.

Noise or abrupt stop

1. Check the accumulator to see if it is low in voltage.
2. Built-in battery low, please use AC power instead to power the system.
3. Check the cable connection to the speaker. The cable might be broken after a long time use.
4. Possible frequency interference with local transmission. Please contact the dealer to change channels for better reception.

No voice heard

1. One of the powers is not turned, please check all power source and make sure they are all on.
2. The volume control knobs are turned to lowest level. Make sure they are proper in sound.
3. Lavalier cables are broken after a long time use.

Take out the 9V battery to avoid its acid damaging the components of the transmitter if you are not going to use it for a period of time.

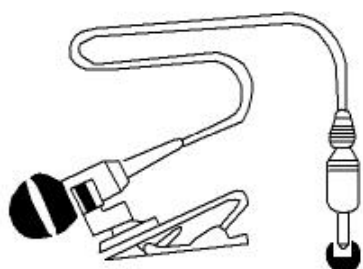


Technical specifications

Power:	AC 220V 50Hz;DC 12V/1.2AH (built-in rechargeable battery;)
External DC power:	12V/1A
Speaker:	16CM,10W/4Ω
Frequency Range:	VHF 165~265MHz
Sensitivity:	10dB/μV (S/N:>60dB)
Oscillating Mode:	±0.005% quartz control phase locked
Wireless effective range:	35 meters
Dimension:	180 X 300 X 110MM
Peak power:	50W max
Output power:	20W

We reserve the right of changing technology and specifications of our products without notice in advance.

Options of accessories



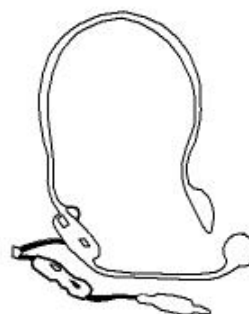
Lavalier Microphone



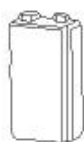
12V/1.2AH
Built-in battery



Lavalier wireless Mic
with transmitter



Headset Microphone



8.4V rechargeable
battery
(optional)



Haversack
(optional)



Handheld Wireless MIC
(Optional)