

MANUAL

Portable Wireless PA Amplifier

-- With USB/SD Play & Record function in MP3 format



ISO9001:2008 R&TTE   SMD

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.

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 1.2AH rechargeable battery. or with car cigarette lighter power for DC 12V. (The power cord for car is not included, call us for optional purchase)
- * Amplifier working in UHF band and there are 0~99 different possible frequencies from 700 MHz to 900 MHz.
- * Low power consumption for long time operation with integrated circuitry.
- * 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 alternatively.
- * Tone control.
- * Wired/wireless microphone
- * Digital echo control
- * Aux input for connecting to MD/CD etc.
- * Aux output
- * Speaker output 8 ohms
- * USB/SD play & record function in MP3 format
- * FM radios
- * LCD displayer
- * Low voltage circuit protection for the built-in rechargeable battery to avoid the damage of the rechargeable battery in case of incorrect operation.
- * 9V common battery or 8.4V rechargeable battery can be used in the wireless handheld microphone and the wireless transmitter.



aerobics

Options of accessories



X-006
Lavalier wireless
MIC
with transmitter



X-007
Lavalier MIC



X-076B
Headset MIC



X-077
Headset MIC



X-010
Handheld
wireless MIC



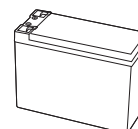
X-011
Handheld
wireless MIC



X-015
Handheld
wireless MIC



RE-006
MP3/FM
remote controller



DC12V 1.2AH
Rechargeable
battery



DC8.4V/150mAh
Ni-MH rechargeable battery
(Repeat usage 500 times)



AA battery



Haversack

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	1. AC power voltage please refer to the correct voltage on the label of the PA Amplifier main machine 2. DC 12V/1.2AH built-in rechargeable battery;
Peak of music power	50W max
Speaker	16CM,10W/4*
Frequency Range	UHF 700~900MHz
Sensitivity	10dB/*V (S/N:>60dB)
Oscillating Mode	*0.005% quartz control phase locked
Wireless effective range	35 meters
Dimension	180 X 110 X 300MM

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

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: Warning: Don't dismantle this product. The maintenance and inspection should be carried out by a qualified technician to avoid the risk of electric shock and damaging the components.		

Cautions:

- * This machine can produce the electronic magnetic field because it's magnet speaker, please let this machine far from PC, TV set over 60cm, otherwise this magnetic field will effect their picture and voice. After use, please pull out the power cable from the power socket.
- * This machine should be far from the high temperature or heat objects to avoid damage it.
- * This machine should be far from the big power wireless transmitter tower to avoid the interference.
- * For the built-in rechargeable battery:
 1. Should be charged over 8 hours before use, make sure it can be supplied power at any time.
 2. Should be charged over 8 hours after use to protect the battery and the power supply.
- * Please don't use this machine if the following circumstances happen, refer servicing to qualified personnel only.
 1. Power cable or power socket be damaged.
 2. This machine was drenched by rain or other obstacles inside the machine.
 3. Some components were damaged.

*Make sure to keep 20cm distance around this machine, aeration is important for it's usage. Please replace the same specific battery if the built-in 12V/1.2AH battery was damaged otherwise will damage this machine and please handle this damaged battery appropriate to avoid pollute the environment.

Warning:

- * Please don't put this machine in the rain, moisture and dusty place to avoid the fire or lightning struck.
- * In order to avoid creepage and get electric shock before use AC power, please refer to:

1. Please check the power cable, make sure it's in the good condition.

2. The using AC voltage should be the same as we stated in the machine or manual.

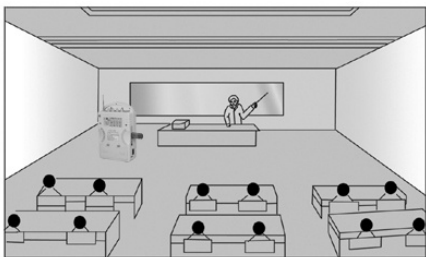
- * Please don't dismantle this product. The maintenance and inspection should be carried out by a qualified technician to avoid the risk of electric shock and damaging the components.
- * Be sure to switch off the system main power after use, otherwise the battery will be over discharged and it can damage the Lead Acid rechargeable battery and shorten the battery life dramatically.
- * After use the wireless transmitter, please take the battery out of it to avoid battery leaking to damage the transmitter.
- * Please only take out the USB/SD card in OFF situation to protect the USB/SD's damage.

The usage of the amplifier system

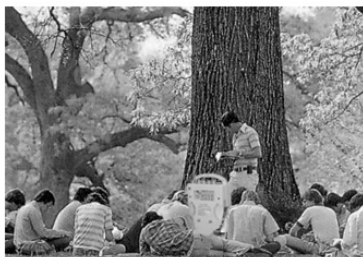
This unique designed amplifier speaker system with microphone is perfect for the following applications.

- * 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 your voice heard clear & loud from far!



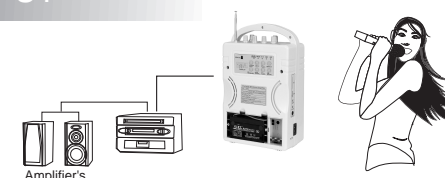
Classroom teaching



Tour

How to use the AUX OUTPUT

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



How to use the 8* SPEAKER OUTPUT

Connect the external 8* loudspeaker to this speaker OUTPUT Jack to meet your requirement.

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 rechargeable battery to see if it is low in voltage.
2. Rechargeable battery is low voltage, 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.

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, one 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 1.2AH battery built in?

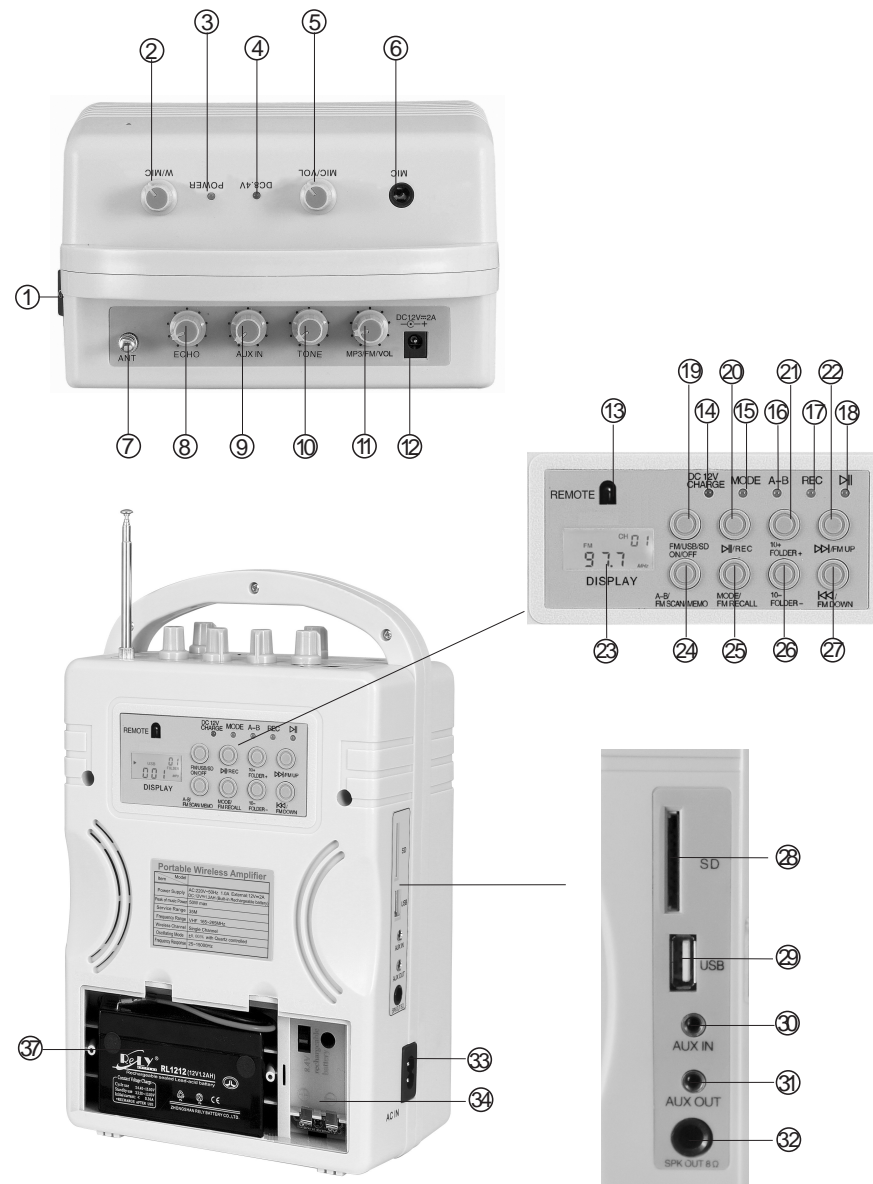
1. It is recommended to charge the battery for the first time use for 12 hours.
2. Turn the main switch to "Charge" and the rechargeable battery will be charged with a consistent current and voltage.
3. The charging indicator will change to from bright to dim with the battery charging, the LED will die 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 around 4 hours. Amplifying. But play MP3 for around 1 hour in middle volume.

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.

15

The system descriptions:



(Back view)

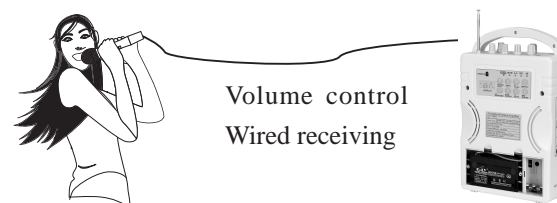
4

1. AC ON/OFF CHARGE SWITCH

2. W/MIC: This is a wireless microphone control volume knob. You can adjust it from Min to Max as your need for the wireless microphone.
3. POWER LED: This is the Power ON/OFF LED.
4. DC8.4V LED: This is the DC8.4V charge LED.
5. MIC/VOL: This is a wired microphone control volume knob.
6. MIC JACK: This is a wired microphone input jack.
7. ANT: This is an Antenna for the wireless and FM signals receiving well.
8. ECHO: This is a digital echo function control knob for your need to adjust it from Minimum to Maximum to have the perfect echo sound result.
9. AUX IN: This is a volume control knob for the Aux input. Any audio sources input volume can be controlled by this button.
10. TONE: This is a control knob for the treble and the bass sound result. From the Minimum to Maximum is from Bass to Treble. Adjust it slowly from Min to Max as your need.
11. MP3/FM VOLUME: This is a combined control knob for MP3/FM VOLUME.
12. DC12V 2A INPUT JACK: This is for the DC 12V 2A power input.
13. MP3/FM remote control receiving head
14. DC 12V CHARGE LED
15. MODE LED
16. A-B LED
17. REC LED
18. PLAY/PAUSE LED
19. FM/USB/SD ON/OFF BUTTON: Press this button the first time as the default power in the machine and auto play the USB card as priority. If there is no USB card inserted, it will auto scan to the SD card to play it. Press this button again to switch from the FM/USB/SD/ON/OFF functions. Display FM in the LCD screen when FM is working. Display the U and MP3 or WMA in the LCD screen when the USB card is working. Display the SD and the MP3 or WMA when the SD card is working. Press and hold this button more than 2 seconds to close the display and enter the standby situation.
20. \triangleright /REC button:
 - a) In MP3mode, in Standby situation, first time to press this \triangleright /REC button to play

How to use a wired microphone

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

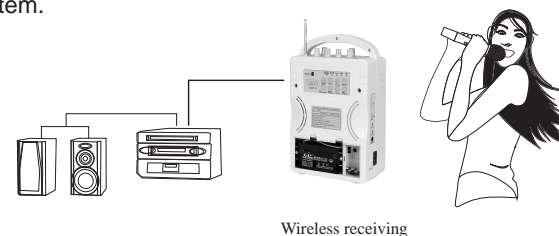


How to adjust the TONE

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

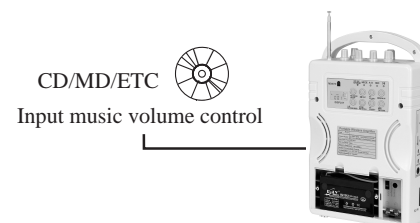
How to connect recording system to the amplifier system

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

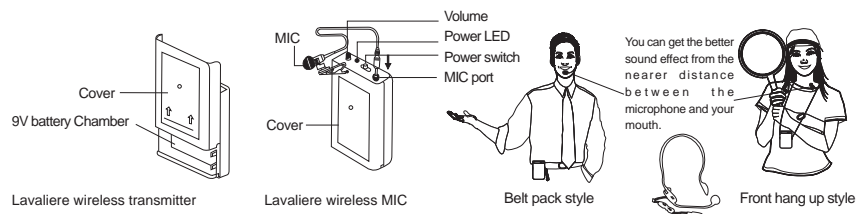


How to use the Aux Input?

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.



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.



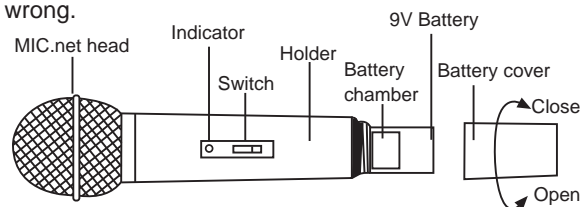
How to use the Wireless handheld Microphone

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

13

the MP3, the LCD screen always shows the present song and the past time each 5 seconds. In MP3 play mode, press \triangleright /REC to pause the MP3 play, the LCD screen shows "II". In play mode, press this button can switch the function from PLAY to PAUSE or from PAUSE to PLAY. Press and hold this button more than 2 seconds to enter MIC/AUX recording function. It will auto select the target disk (USB or SD card). At this moment, the USB or SD is flashing in 1Hz (the target disk is flashing). During the recording, Press \triangleright /REC again to stop the recording. The data is recorded in the last song of the present disk.

- b) In FM mode, Press and hold \triangleright /REC button more than 2 seconds to enter MIC/AUX recording function. It will auto select the target disk (USB or SD card). At this moment, the USB or SD is flashing in 1Hz (the target disk is flashing). During the recording, Press \triangleright /REC again to stop the recording. The data is recorded in the last song of the present disk.

21. 10+/FOLDER+ BUTTON

22. \triangleright /FM UP

- a) In MP3 mode, press \triangleright /FM UP button to next song. Press and hold this button more than 2 seconds to be fast forward.
- b) In FM mode, press \triangleright /FM UP button to add FM frequency +0.1MHz, Press and hold this button more than 2 seconds to auto scan FM. When scan the FM and call the correct radio frequency, it will auto stop and stay to play this FM radio.

23: Display LCD for the MP3/FM.

24. A-B/SCAN/MEMO




- a) In MP3 play mode, the first time to press this button to set the beginning point, "A-B" in the LCD screen is flashing quickly. The second time to press this button to set the ending point and then it will enter auto repeat play situation. "A-B" in the LCD screen is flashing slowly. In repeat mode, press this button to stop the repeat function and enter normal play function.
- b) In FM mode, press and hold this button more than 2 seconds to auto scan and memorize the radio stations. Full memory of it is total 30 radio stations. It can auto skip the empty space.

Manually memorize the radio stations: Press this button the number is flashing, when the number is flashing, press MODE/MEMO UP button to select the number what you want within 5 seconds press A-B/FM SCAN/MEMO button to memorize the number. Without any press this A-B/FM SCAN/MEMO button

6

within 5 seconds, it will auto exit this function. When the numbers are memorized, the LCD screen displays the stable numbers.


25. MODE/FM RECALL


a) In MP3 mode, press this button the first time, the LCD display  and ONE MODE LED flash slowly. Press the second time, the LCD display  and "FOLDER", MODE LED flash quickly. Press the third time, the LCD display  and "ALL", MODE LED lights at all the time.

b) In FM mode, Press this button to recall the last memorized radio station.

26. 10-/FOLDER- BUTTON

27. /FM DOWN

a) In MP3 mode, press  /FM DOWN button to last song. Press and hold this button more than 2 seconds to be fast backward.

b) In FM mode, press  /FM DOWN button to decrease FM frequency -0.1MHz, Press and hold this button more than 2 seconds to auto scan FM. When scan the FM and call the correct radio frequency, it will auto stop and stay to play this FM radio.

28. SD: SD port for inserting the SD card

29. USB: USB port for inserting the USB card

30. AUX IN JACK: This is an audio input jack.

31. AUX OUT JACK: This is an audio output jack.

32. SPEAKER OUTPUT 8 OHMS: This is a 8 ohms speaker output jack.

33. AC POWER CABLE PLUG SOCKET: This is for the input of the AC power cable.

34. DC8.4V CHARGE ROOM: This room is a DC 8.4V charger.

35. DC 12V 1.2 AH RECHARGEABLE BATTERY & CHARGE ROOM

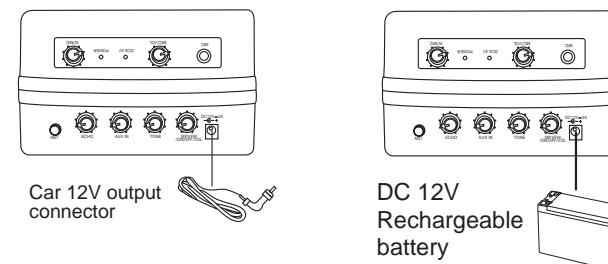
Cautions:

1. It can back up three files format: FAT, FAT16 and FAT32.
2. It can read the 64MB to 4GB USB.
3. The MP3 file in the USB/SD card is read in the sequence as its down load time which is down loaded first then be read as the first one and so on.

battery to avoid the damage of the rechargeable battery in case of incorrect operation. When the main receiver is being used, if the voltage of the rechargeable battery is less than 9*0.5V, the rechargeable battery is switched off its power automatically by its low voltage circuit protection. And need to be used with AC power or recharged in time, or the life span of the rechargeable battery will be shorten.

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 rechargeable 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 damage.



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.

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 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 over charge the battery built in.
3. When the AC power suddenly cut off, the built-in battery will power the system to work no delay.
4. Fully hang up the antenna of the main frame to achieve the widest service range of the wireless MIC. 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 if you are not going to use it for a while.

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.

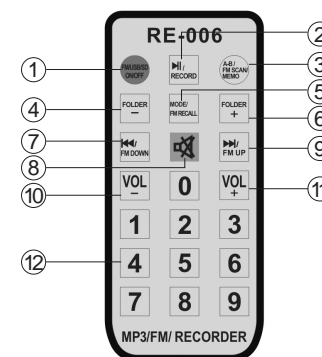
System works on DC power

1. Turn on the main switch to ON and the power LED will indicate the battery works well.

Caution:

- (1) Before start to use the main machine, the built-in rechargeable battery must be full charged over 8 hours.
- (2) When the main machine is operating and occur noisy interruption and distortion voice, indicates the weak built-in rechargeable battery, you should replace the DC power to AC power and charge the main machine in time.
- (3) Low voltage circuit protection for the built-in rechargeable

Remote controller RE-006 operation instructions:



1. **FM/USB/SD ON/OFF BUTTON:** Press this button the first time as the default power in the machine and auto play the USB card as priority. If there is no USB card inserted, it will auto scan to the SD card to play it. Press this button again to switch from the FM/USB/SD/ON/OFF functions. Display FM in the LCD screen when FM is working. Display the U and MP3 or WMA in the LCD screen when the USB card is working. Display the SD and the MP3 or WMA when the SD card is working. Press and hold this button more than 2 seconds to close the display and enter the standby situation.
2. **▷||/REC button:**
 - a) In MP3 mode, in Standby situation, first time to press this ▷||/REC button to play the MP3, the LCD screen always shows the present song and the past time each 5 seconds. In MP3 play mode, press ▷||/REC to pause the MP3 play, the LCD screen shows "||". In play mode, press this button can switch the function from PLAY to PAUSE or from PAUSE to PLAY. Press and hold this button more than 2 seconds to enter MIC/AUX recording function. It will auto select the target disk (USB or SD card). At this moment, the USB or SD is flashing in 1Hz (the target disk is flashing). During the recording, Press ▷||/REC again to stop the recording. The data is recorded in the last song of the present disk.
 - b) In FM mode, Press and hold ▷||/REC button more than 2 seconds to enter MIC/AUX recording function. It will auto select the target disk (USB or SD card). At this moment, the USB or SD is flashing in 1Hz (the target disk is flashing). During the recording, Press ▷||/REC again to stop the recording. The data is recorded in the last song of the present disk.

3. A-B/SCAN/MEMO




a) In MP3 play mode, the first time to press this button to set the beginning point, "A-B" in the LCD screen is flashing quickly. The second time to press this button to set the ending point and then it will enter auto repeat play situation. "A-B" in the LCD screen is flashing slowly. In repeat mode, press this button to stop the repeat function and enter normal play function.

b) In FM mode, press and hold this button more than 2 seconds to auto scan and memorize the radio stations. Full memory of it is total 30 radio stations. It can auto skip the empty space.

Manually memorize the radio stations: Press this button the number is flashing, when the number is flashing, press MODE/MEMO UP button to select the number what you want within 5 seconds press A-B/SCAN/MEMO button to memorize the number. Without any press this A-B/SCAN/MEMO button within 5 seconds, it will auto exit this function. When the numbers are memorized, the LCD screen displays the stable numbers.

4. 10-/FOLDER-: In MP3 play mode, press this button to decrease 10 songs for play. When the present folder is less than 10 songs, it will jump to the last song. Press and hold this button more than 2 seconds, decrease one folder at the present situation.


5. MODE/FM RECALL


a) In MP3 mode, press this button the first time, the LCD display  ONE MODE LED flash slowly. Press the second time, the LCD display  and "FOLDER", MODE LED flash quickly. Press the third time, the LCD display  and "ALL", MODE LED lights at all the time.

b) In FM mode, Press this button to recall the last memorized radio station.

6. 10+/FOLDER+: In MP3 play mode, press this button to increase 10 songs for play. When the present folder is less than 10 songs, it will jump to the last song. Press and hold this button more than 2 seconds, increase one folder at the present situation.


7. FM DOWN


a) In MP3 mode, press  / FM DOWN button to last song. Press and hold this button more than 2 seconds to be fast backward.

b) In FM mode, press  / FM DOWN button to decrease FM frequency -0.1MHz, Press and hold this button more than 2 seconds to auto scan FM. When scan the FM and call the correct radio frequency, it will auto stop and stay to play this FM radio.

8. MUTE: In play mode , press  to enter or clear the mute mode.

9. / FM UP

a) In MP3 mode, press  / FM UP button to next song. Press and hold this button more than 2 seconds to be fast forward.

b) In FM mode, press  / FM UP button to add FM frequency +0.1MHz, Press and hold this button more than 2 seconds to auto scan FM. When scan the FM and call the correct radio frequency, it will auto stop and stay to play this FM radio.

10. VOL-: In play mode, press this key to decrease the volume level.

11. VOL+: In play mode, press this key to increase the volume level.

12. Number key: You can select the track you want directly by using this number key.

Accessories included with (single channel system)

1. One main receiving machine
2. One Lavalier microphone with transmitter
3. One headset microphone
4. One handheld microphone (optional)
5. One MP3/FM remote controller
6. User's manual



main receiving machine



Lavalier
Microphone
with Transmitter



Headset
Microphone



Handheld
Microphone
(optional)



RE-006
MP3/FM
remote
controller



USER'S
MANUAL

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.