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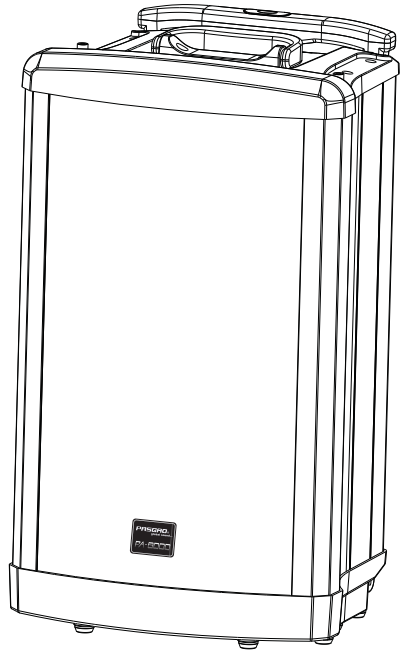
PA-8000

Wireless Portable Sound Systems

User manual



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Extraordinary Features:

01.Aluminium enclosure
02.200V-250V AC switch mode power supply
03.Two way speaker system
04.Built-in two stages charging circuit
05.24 V DC supply from two built-in maintenancefree 12V/4.5 AH lead acid type rechargeable batteries
06.Slot for choice of two UHF PLL synthesized diversity type receiver modules
07.Built-in diversity receiving UHF antennas
08.Two Neutrik XLR/Phone combo connectors as wired microphone input
09.Line in & out RCA jack
10.Cassette recorder with pitch control function
11.CD player with anti-shock function
12.Voice priority circuit
13.Preamplifier, mixer and amplifier circuit
14.High performance optocoupler limiter circuit minimized distortion and over modulation
15.Separate power switches for receiver and CD/Tape
16.Individual volume control for wired and wireless microphones
17.Master volume control
18.Audio Link Master/Slave circuit
19.Handle
20.Two stage trolley
21.Wheels
22.Enclosure base equipped with tripod stand adaptor
23.Optional accessories: Tripod stand & corresponding carrying bag PA-8000 Weather proof bag

Connection Merit

Wide flexibility, this PA system can be used alone and can be used connected with 20sets master and slave link to expand to huge outdoor PA system which can be used for thousands people.

Catalogue

System module 3
Back panel function.....4
CD player.....5
CD Remote Control.....6
Function specification.....8
Control panel.....9
System setting and operation.....10
Wireless receive module.....12
Handheld transmitter.....13
Bodypack transmitter.....14
Technique parameter.....15

Technology parameter

Receiver Transmitter

Output power
MAX 200w
Maximum sound pressure
118 dB
Speaker
Built-in 10-inch full range speaker and althorn
power
200V-240V（150W）SWITCHING POWER SUPPLY
Charge battery
12V 5.5AH*2 pieces
Two high energy storage battery
THD
<0.5%
Receive module
A set of UHF (470-1000MHZ)
Using time
4-6 hours
size
600（H)*350(W)*300(D)
Weight :
21.5

CD basic data

Laser
Semiconductor laser wavelength 780MM
Frequency response
20HZ-20KHZ
SNR
＞80dB
Coordination distortion
＜0.012%(1KHZ)
Use CD-ROM
DVD\VCDMP3\CD\CD-R\CD-RW\
PICTURE-CD \Compact Disc

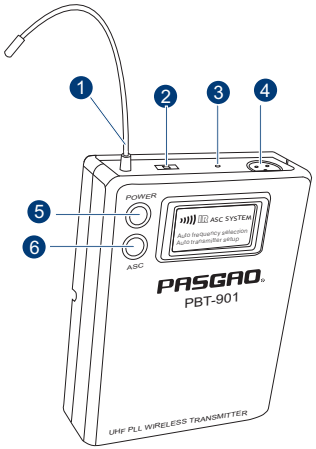
Handheld Transmitter

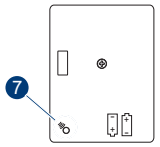
Max Audio input level
0dBV
Dimensions
250mm*54mm dia.
Weight
270 grams（without batteries）
Power Requirements
2 “AA” sizs alkaline or rechargeable batteries
Battery Life
＞8 hours

Bodypack Transmitter

Max Audio input level
0dBV to +10dBV
Gain Adjustment Range
20dB
Input Impedance
470KΩ
Dimensions
85mm H * 65mm W*24mm D
Weight
85 grams（without batteries）
Power Requirements
2 “AA” size alkaline or rechargeable batteries
Battery Life
＞8hours

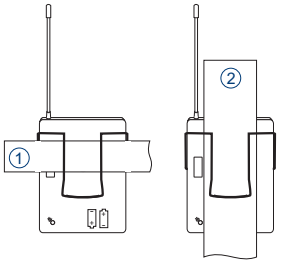
Bodypack Transmitter





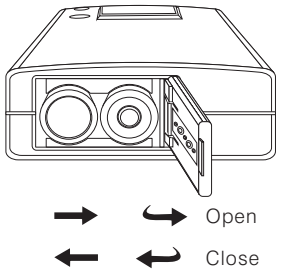
Functions:

1. Antenna
2. Adjust gain and mute switch
   There are two gain settings on PBT-901. Please select the in strument setting most suitable to you.
   Mic.: Microphone
   0: Guitar with passive pickup
   -10dB: Transmitter mute
3. Power/Low Voltage/IR Transmission LED lamp
   Green:ready
   Red Lamp is on: the battery voltage is low
   Flashing red lamp: IR transmission is in progress
4. 3-pin microphone input socket
5. Power control button
   Tap two seconds to turn on, hold to turn off
6. Synchronizing Signal Receive button
   If this button is pressed, it is possible to establish infrared connection between the transmitter and receiver.
7. IR Window
   This window receives infrared signal so as to keep frequency synchronization.



How to Wear the Waist Worn Transmitter:

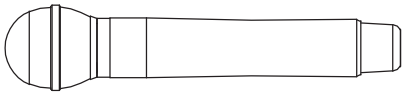
Buckle the transmitter clip to the belt ① or run the guitar strap through the transmitter clip ②, as shown in the left diagram.
If best effect must be achieved, the transmitter should be pushed dow ①.



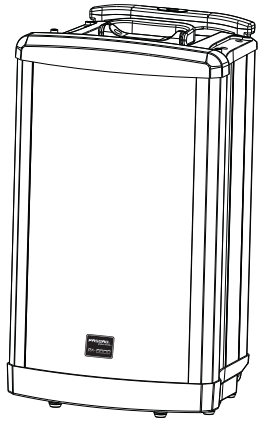
Battery Replacement :

The life expectancy of two alkaline batteries is about 8 hours. When the battery indicator is lighting, the batteries should be changed immediately, as shown on the left.

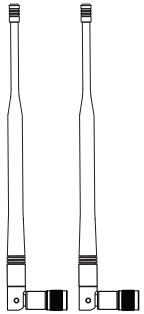
System Module



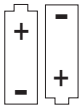
Handheld transmitter



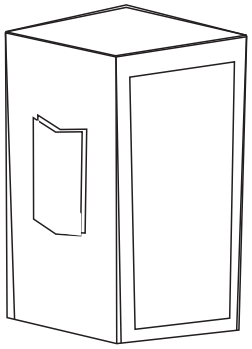
receiver



Two antennas



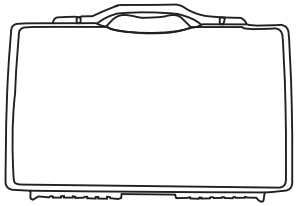
1.5V AA



shield

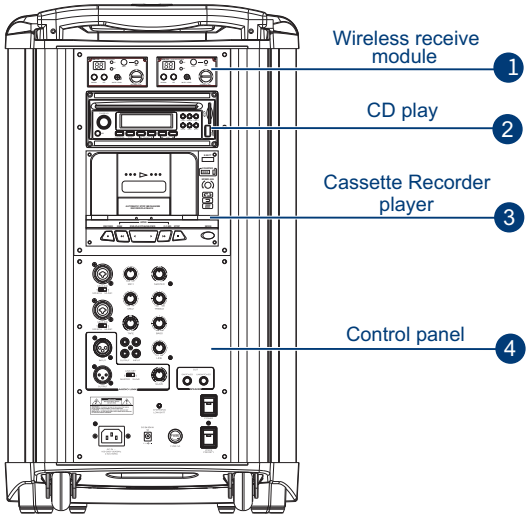
specification

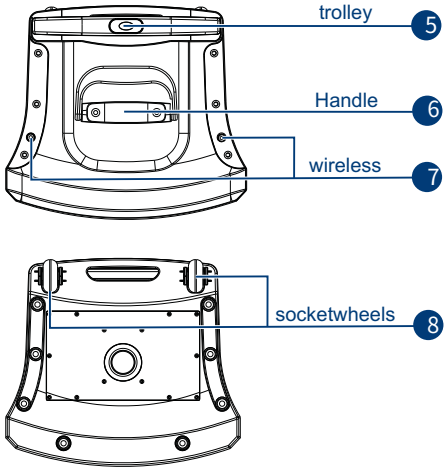
Bodypack transmitter



Portable box

Back Panel Function Introduction





Wireless receive module

Slot wireless receive module
Be matching with 2 wireless receive module at best
UHF module: WM-160
WM-160
Receive module have their power/ volume control button

CD play

Digital CD player with USB input interface
Type: CD /MP3 player with anti-shock function
Can be stored via the USB slot to read
The audio file MP3/wma within the flash disk / walk dish
Fully electronic button
In addition to the power switch / volume adjust button
CD input: Pre-inhaled
Power Supply: 12 DC or 10-14V

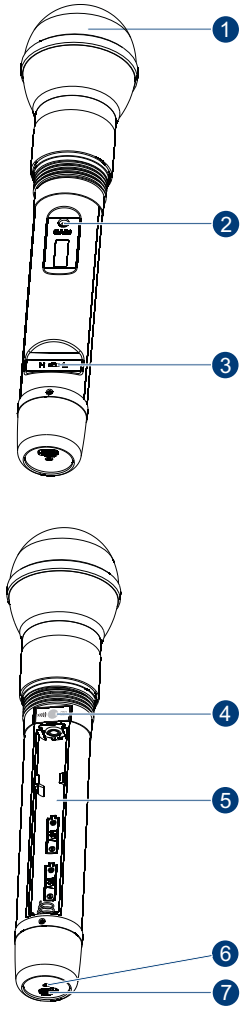
Cassette Recorder player

Play or recorder function
Adjust the play speed control functions
Tape reverse operation
Automatic musical selection select function
LCD timer function

Control panel

Adjust knob: wired microphone volume, tape volume
Line in & audio link in
Volume, Bass & Treble volume, host volume
Voice priority switch
Input: wired microphone X2 line in X1
Audio link in：audio link out、speaker(switched/ unswitched)、line out(RCA output)
External connection speaker: external connection speaker switch (inside speaker break)
External connection speaker with inside speaker in common(UNSWITCHED)
LED show: Low battery power indicator light (red), charging indicator light (Flashing green for charging, green for full), power switch
Ac power:200- 250V Power supply jack
Dc power:24-32V commutator input jack

Handheld Transmitter：



Functions:

1 Microphone head

2 Adjustinput sensitivity of the microphone head
Left turn for sensitivity I decrease, right turn for sensitivity increase.

3 RF power switch
The hight of power for H,the low of power for L.

4 IR port
Receives infrared beam to synchronize frequencies.

5 Batteries rack

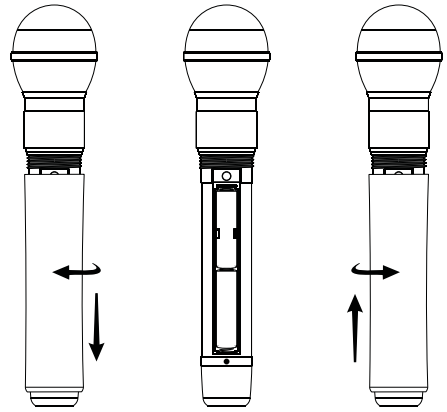
6 Power/ASC/Battery low indicator light.
Green on: power on
Green flash: IR transmission in process.
Red flash: battery low

7 On-off/mute switch

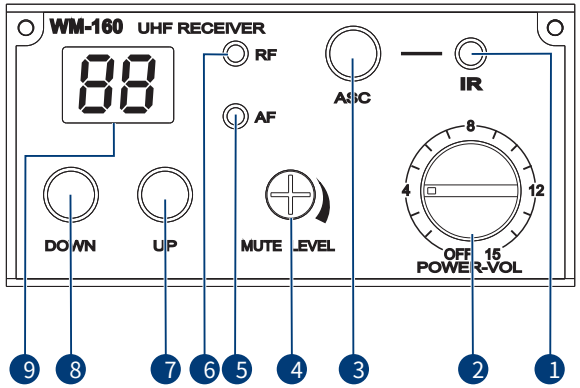
Changing Batteries:

Expected life for two alkaline batteries is about 8 hours.

As the battery indicator on the screen keeps glowing , the batteries should be changed immediately (as shown below).

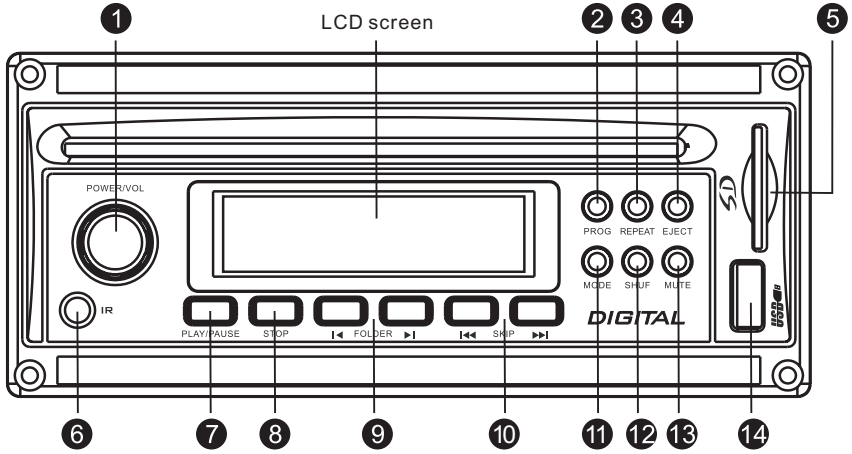


Wireless Receive Module



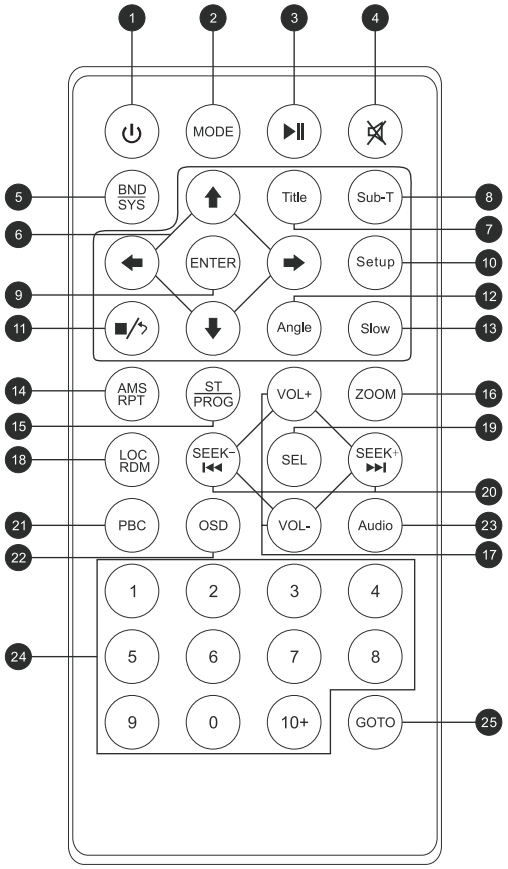
1. IR window
   Send infrared signals to the transmitter, in order to frequency synchronization
2. Power-vol: power switch off for turn off and volume adjust
3. ASC: autom on the frequency
4. Mute level: mute adjust
5. AF: AF indicator light
6. RF:RF indicator light
7. UP: up
8. Down : down
9. Digital tube channel show

CD Play



1. POWER/VOL: On / off, volume control+/-
2. PROG: Program
3. REPEAT: Repeat Play
4. EJECT: In / out disc
5. SD : SDCard external connector
6. IR: Remote Control Receiver Module
7. PLAY/PAUSE: PLAY/PAUSE
8. STOP: Stop, return to the boot screen
9. ⏮ FOLDER ⏭: Songs plus / minus 10
10. ⏮⏮ SKIP ⏭⏭ : Short press on the one / next track selection, press the fast forward / rewind
11. MODE: SD/USB/DVD Functional transformation
12. SHUF: Random Play
13. MUTE: Mute
14. USB : USB2.0 External jack

CD Remote Control



❶ Power Button: Power switch

❷ Mode Button: Mode conversion, convertible radio or play mode

❸ ▶‖ Button:Pause / play button

❹ Button:Repeated short press to clear and restore the sound

❺ BND/SYS Button:Radio state is converted band, playing status is standard conversion (CD state no such function)

❻ ⬅/➡/⬆/⬇ Button:
Menu Select / OK
In playing status, "⬅/➡/⬆/⬇" button, choose according to your need to be the menu, then press "ENTER" button or the Play button " ▶‖ " to determine.

❼ Title button: Title menu in DVD, VCD state "TItle" is to show all the track disc menu. Then you can with the number keys (1-10 +) directly select the player or the remote control menu selection key "❻" to select the desired menu and press "❾" or "❸" to determine the play.

State: Title have free function in CD, MP3 state

❽ Sub-T button: In DVD, VCD state, press the "Sub-t" button, you can switch title/voice to English / Chinese.

❾ ENTER button to select the desired menu item, press "ENTER" button to determine the play.

❿ Setup button: Set Menu
CD playing status, press "Setup" button, the screen will display the system menu content

⓫ ■/↩ button:Back to menu / options. To terminate play other songs, according to "■/↩" button to return to re-select the menu content

⓬ Angle button: multi-angle, in the state, according to "Angle" button, you can watch a different point of view recorded content within the DVD disc.
Note: DVD disc only with the role of multi-angle function

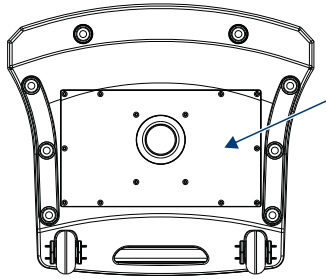
⓭ Slow Button: Slow progress settings: in DVD, VCD state a "Slow" button ,for 1 / 2 slow progress, press tow for 1 / 3 of slow progress, press three for 1 / 4, slow progress has been according to the seven times slow progress.

⓮ AMS / RPT button: radio status, press the "AMS / RPT" button, can be adjusted to their favorite radio programs. Playing press the "AMS / RPT" button, repeat track

⓯ ST / PROG button: radio state transitions mono or stereo. In the playback mode programming
Note: The only role they have in the DVD under

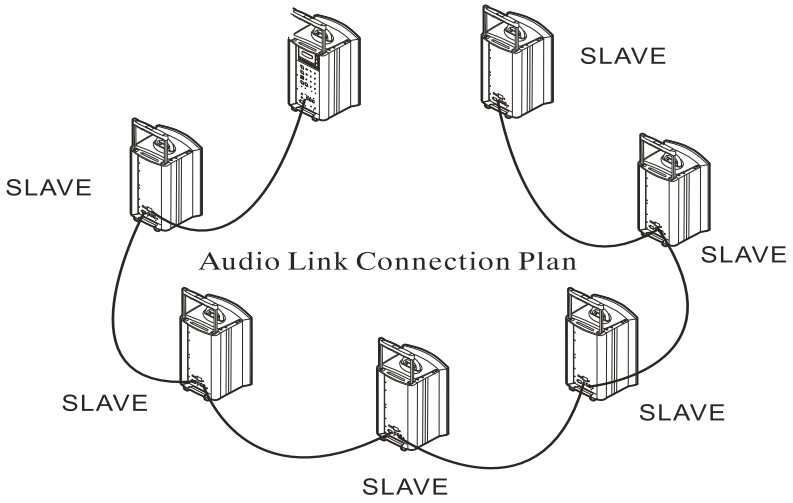
Host storage battery charging / maintenance operation method:
1. Connection host labeled AC voltage alternation power, automatic charge, flashing green for charging and green light to full automatically.
2.This machine to make constant current fully automatic charging, the battery is full, charging automatically stops. Charging time is more than eight hours.
Maintenance:
Notice:
1.After using the host, storage battery should charge 12 hours to protect battery and power back-up.
2.Not to use a long time, the storage battery must be charged for more than 14 hours every three months. Otherwise affect battery life.

Built-in battery replacement operation method
1. At the bottom of the host, use two batteries which specification is 12V4.5AH. The storage battery can be reused 500 times by right using method and maintenance.
2.Battery should be charging more than 8 hours, such as aging and damaged batteries should be replaced.
First, open the battery cover and then take out the old battery.
3.Replacing new battery, the Interface must be connected by red +, black -. Using screw to fixed battery room. Be sure to connect correctly, otherwise damaged to the internal circuit .
Notice: For extended battery time and prevent the strong wireless interference from the outside world, please close power switch /volume switch when you not use wireless microphone.
1.When used. Please charging or replace battery in time if there are noise, change the sound, staccato which caused by lack of electric quantity.
2.After using should be shut down power switch (switch pushed to the OFF position), or consuming battery power.



At the bottom of the host, storage battery cover.

Sound box connection diagram



System Setting And Operation

1.Wired microphone operation method
Insert the microphone cable (MIC / phone) hole, optional speech or music mode, adjust the volume knob to position the need for volume.

2.Treble/bass control operation method
Treble bass control knob can adjust treble bass to adapt to different tone , according to the need for regulation over to the best sound quality
Notice: If appear scream phenomenon, the microphone should away from the speaker and to avoid being on the speakers

3.Connection speaker 、 recorder equipment operation method
It can be used normally when Audio link out ,connection speaker 、 record equipment input .

4.Wireless audio frequency output (volume double increase) operation method
Applicable to large-scale activity 、 conference
A. Open the host normally, put the wireless transmitter switch of the host to the open location, then turn on the wireless microphone receiver volume of the slave box with the main switch of the master box adjust to an appropriate volume.
B. Please put the wireless switch back position of the host after using
C. In order to ensure slave of the sound tone clear need to switch the mixer.
D. The transmission distant of Master box and slave box is 50-100metre

5.External connection speaker output operation method
（1）Put the external speaker to the speaker plug
A、The inside speaker break off automatically when the external speaker inset the switched plug
B、Inside speaker and external speaker can be used simultaneity when the external speaker inset the unswitched plug
（2）External speaker use two speaker line of 4-8Ω/150W which cannot short circuit and contact metal part of machine shell , or the speaker function should burn

6.Host AC alternation power use:
1.Put the power line insert host AC and then connect the alternation power of marked AC voltage range , by this time the battery started charging automatically.
2.Put the power switch (ON) position, turn on the host power, the power indicator light bright, the host can work normally. After using host, the power switch must be put (OFF) position. Otherwise affect battery life.
3.It should be blackout when a sudden case of meet AC alternating current, built-in battery supply power automatically
Notice: Not use or charge a long time, AC power plug must be set aside, if used for charging, please do not open the host power switch.

7.Host DC use:
External DC (24-32V) through the DC power input interface for the host battery charging or direct use. When it for use, please note that the polarity of DC power input, or external DC power supply can not be used. Please use within the marked voltage range .Otherwise, it will affect host performance and even damage to internal circuit. if used for charging, please do not open the host power switch

8.The use of the host batteries
Put the switch (ON) position, turn on the host power supply, power indicator light, the normal battery power supply for built-host, host sound open to half, it can normal work for 4-6 hours . It should be charging 12 before using the built-in battery of the first time. After using host, the power switch must be put (OFF) position. Otherwise affect battery life.
Notice: 1. host storage battery should be charged more than 12 hours before using.
Fall short of storage battery voltage electricity, LOW BATT (red) lights, at this time please be sure to use alternation current or DC use and charging. Otherwise affect battery life.

16 ZOOM button: zoom settings: in DVD, VCD state by a "ZOOM" button, the screen displays expanded twice. By the second, triple screen, and so on, according to the extended closure of the fourth time.
Note: CD, MP3 no effect under

17 VOL+VOL-button: Increase or decrease the volume

18 "LOC / RDM" button, In the radio state press “LOC/RDM” button, far / near the role. Playing status, press "LOC / RDM" button, random play.

19 SEL button: Multi-function button

20 ⏮ / ⏭ button: Tuning / selections / fast forward / rewind

* In radio mode, short press "⏮ / ⏭" button, can automatically up or down the channels. Press and hold for three seconds then switch to Manual Tuning
* CD playback mode, when the short press "⏮ / ⏭ " button, can be up or down to select a track. Press and hold for fast forward / back

21 PBC button: (menu) play

* In the DVD, VCD state press "PBC" button, you can show all the TV shows CD track, then you can match the number on the remote control button (1-10 +) to directly select songs. When you play any song PBC When players choose to terminate the other songs, can press" ■/↩"button to return to re-select the menu content. In accordance with "PBC" button will cancel PBC playback

22 OSD button:Play Time Display
In the DVD, VCD, CD state press "OSD" button, TV shows single show time, when the single remaining or the whole dish and whole disc the remainder of the time

23 AUDIO button:Left / right stereo adjustment: in DVD, VCD, CD continuous press under "Audio" button, you can set the left / right channel / stereo mode

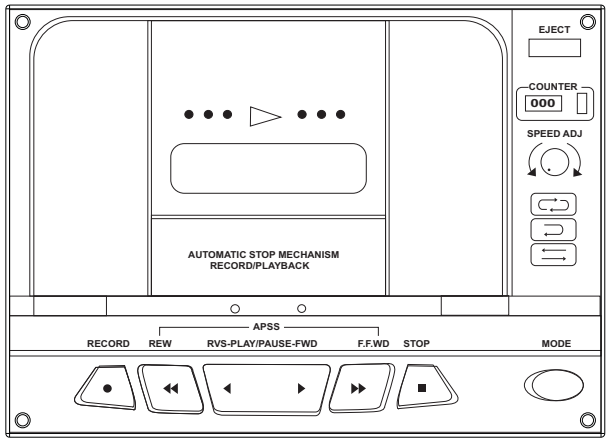
24 1-10+button:Digital button

* In the radio state, press number buttons “1-6” all-band radio can choose their own menories of the six stations
* CD playing with the digital buttons under "1-10 +" can directly select any one segment

25 Goto button: Select Time Play

Cassette Recorder player

(Choice Of Function Specification)



Push EJECT button to put in or take out the tape from the cassette slot, play is RP or FP button. Stop the tape push stop button, reverse tape push FR button, push REC button for recording function, then push FP button or RP button to choose tape side for recording.

During the playing, push FF or FR button to choose the next or previous music song.

Tape reverse operation: Push the auto reverser button to choose the below ways audio playing.

1. Setting as continuous loop and the indicator is lighting, the cassette will continuously playing with side A and side B, to stop the playing push the stop button.
2. Setting as single loop and the indicator is lighting, if the side A is over, it will auto go to side B. The cassette will auto stop when the both side is over.
3. Setting as single side loop and the indicator is lighting, the cassette will auto stop when one side is over.

Notice:

Push stop button to stop the playing before taking out the tape from the cassette slot. Accidentally power is cut off or battery is out of power, do not take out the tape by force. Please charge the battery or connect with other power source to take out the tape.

Tune control

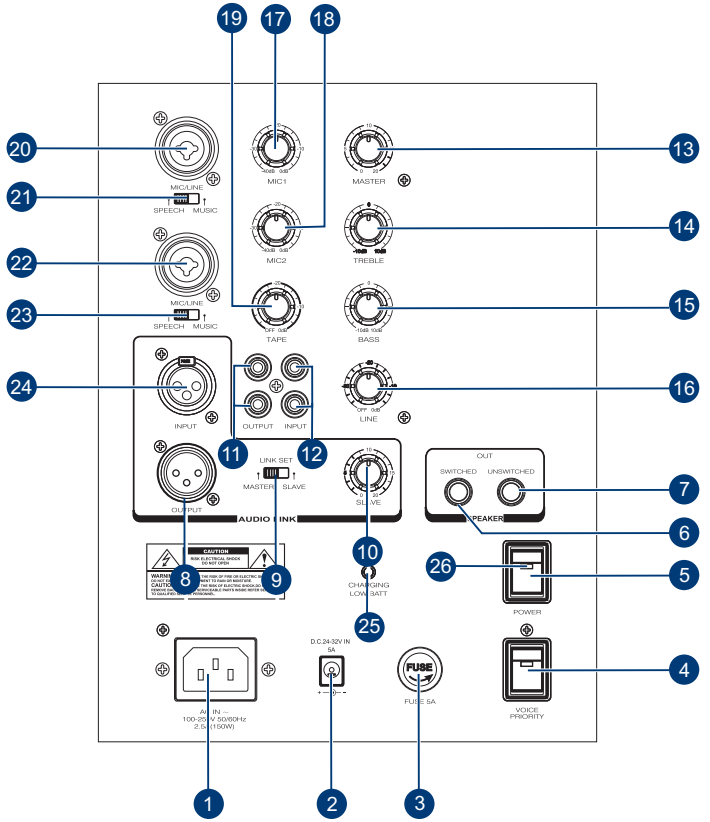
Find tune knob on the TAPE/CD control panel, contradictorily turning to attenuate the treble. Clockwise turning to attenuate the woof. Middle 12 clock position for the original sound.

Audio output

1.The system have the audio line out function, connector the slave speaker with No. 6 connector one control pannel. Turning the No. 8 knob to control the output volume.

2. Also work for other recording application.

Control Panel



1. AC200-240V power input plug
2. DC24-32V commutator input plug
3. Insure tube plug
4. Transmitter voice priority switch
5. Power switch
6. Extraposition speaker switched
7. Extraposition speaker
8. Gamut connection output plug
9. Master/slave mode switch
1. Mode volume control knob
1. (RCA)line in
1. (RCA)line out
1. Master volume control
1. Treble plus/attenuation control
1. Bass plus / attenuation control
1. Audio frequency input volume control
1. MIC1 input volume control
1. MIC 2 input volume control
1. Cassette power 、 volume control knob
2. Wired microphone input
2. Speech/music mode optional switch 1
2. Wired microphone input 2
2. Speech/ music mode optional switch 2
2. Gamut connection input plug
2. Charging indicator light, Flashing green for charging, green for full,red for undervoltage
2. Power indicator light (red)