Wireless Microphone Systems
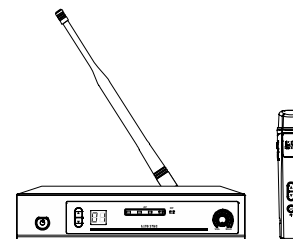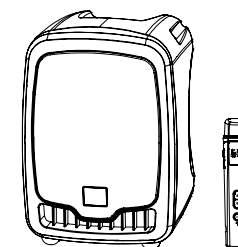
www.peas-pa.com
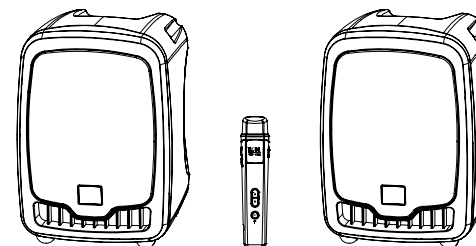
TS-200
TS-200A
PS-5000

Receiver/Handheld Transmitter   **Educational Speaker /
Handheld Transmitter**

Educational Speaker / Passive Speaker / Handheld Transmitter

USER MANUAL

9.Specifications

Educational Speaker

Output Power	Max.30W
Max. Sound Pressure	107dB
Speaker	Built-in 6.5'' full range speaker and tweeter
Power Requirements	16V／3A
T.H.D.	＜0．5%
Dimensions(H*W*T)	325*225*225mm
Weight	4．5kg

Wireless Receiver Module

RF Carrier Frequency	650～675MHz
Max Channel Number	64
Frequency Bandwidth	25MHz
Sensitivity	＜-90dBm
System Frequency Response	30～15KHz(±3db)
S/N Ratio	≥80dB（A）
T.H.D.	＜0．1% to 1KHZ
System Dynamic Range	≥85dB
Ext. Audio Socket	NC
Audio Output Level	＞+5dBV max
Power Requirements	DC12V/500MA
Dimensions(H*W*T)	73*36*100mm
Weight	65g

Install speaker in the wall:

Fix the bracket in the wall with screws.

❶

Put the bracket rubber on bracket.

❷

❸

❹
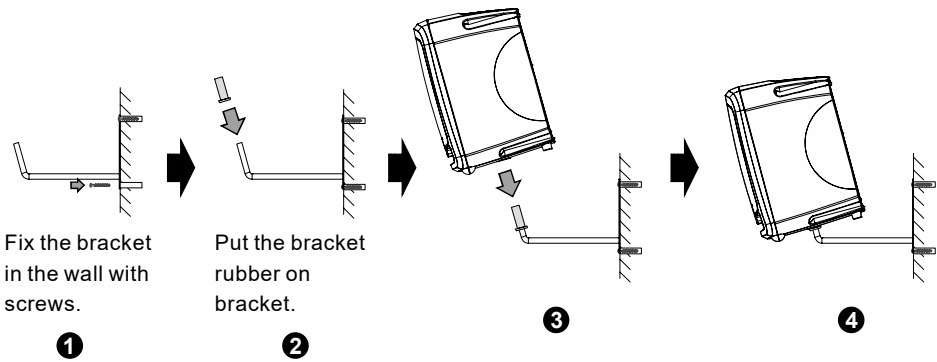
Connection method of external passive speaker: :

EXT SPKR   INPUT

Audio cable

Educational speaker   Passive speaker

EXT SPKR port can connect to INPUT or OUTPUT connector of passive speaker.
Connecting to INPUT connector is suggested, as connecting to OUTPUT port will lower the impedance.
Notice: please do not connect to external speaker while the main speaker is on, which may cause self-protection or damage of output cable by its temporary shortcut. The number of external speaker should be no more than two.

Content

Important Safety Notices

1. Please read the instructions below carefully before operating the equipment and keep the user manual for future reference.

2. Clean only with soft dry cloth and make sure the power is off.

3. Please only use accessories that are specified by the manufacturer.

4. Do not install this equipment in high temperature or high humidity environment.

5. Operation voltage of power supply:

   American Region and Japan: AC 110V~120V 60Hz;

   Europe and Asia: AC 220V~240V 50Hz.

6. Unplug power adaptor and all cables off the unit to protect equipment during lighting storms.

7. Turn off the equipment and unplug power adaptor when it's unused for a long time.

8. The equipment should be opened, serviced and repaired by authorized personnel only. If you need any service or repair, please contact our After-sales Service Center for future help.

7.System setup operation

Wired microphone(MIC) operation:
Plug wired microphone into MIC socket. Voice priority ON/OFF is selectable. Adjust volume to proper degree.
Control and operation of treble/bass:
The treble/base control knob is used for adjusting treble/base for different sound requirements.
Adjust it to proper degree according to your requirements.
Notice: If there is squeal while using the microphone, please try to lower the microphone gain. The microphone should be properly away from speaker. Moreover, make sure the microphone is not direct to speaker.
Connection with amplification and recording equipments:
Audio signal output(the RCA output on control panel)connect to amplification or recording equipments. The system will function well.

Operation wireless module:
1. Turn on the equipment, and turn on the power switch of wireless module on the speaker (the power switch and volume knob shares the same knob.)
2. Select channel number by press up/down buttons on receiver module.
3. Adjust the volume knob of receiver, coordinate with the master volume knob on control panel, to get clear and loud sound.
4. After finishing using it, please do not forget to turn off receiver module and transmitter.

Operation of external speaker output:
Plug external speaker into EXT SPKR socket.

Notice: 1. Please use power adaptor that is specified by manufacturer.
        2. If other power is inevitably to be used, please try to use switching power supply and its current should be over 2A.

5.Control Panel

1 Power switch
2 Power indicator light
3 Master volume knob
4 Base adjusting knob
5 treble adjusting knob
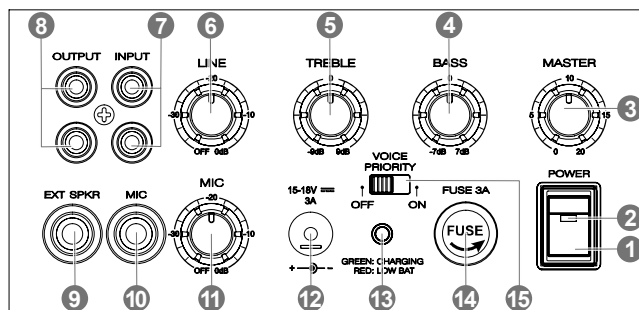
6 RCA input gain knob
7 RCA input socket
8 RCA output socket
9 External speaker socket
10 Microphone input socket

11 Microphone gain knob
12 DC input socket
13 Charging/low battery indicator
14 Fuse base
15 Voice priority

6.Passive speaker
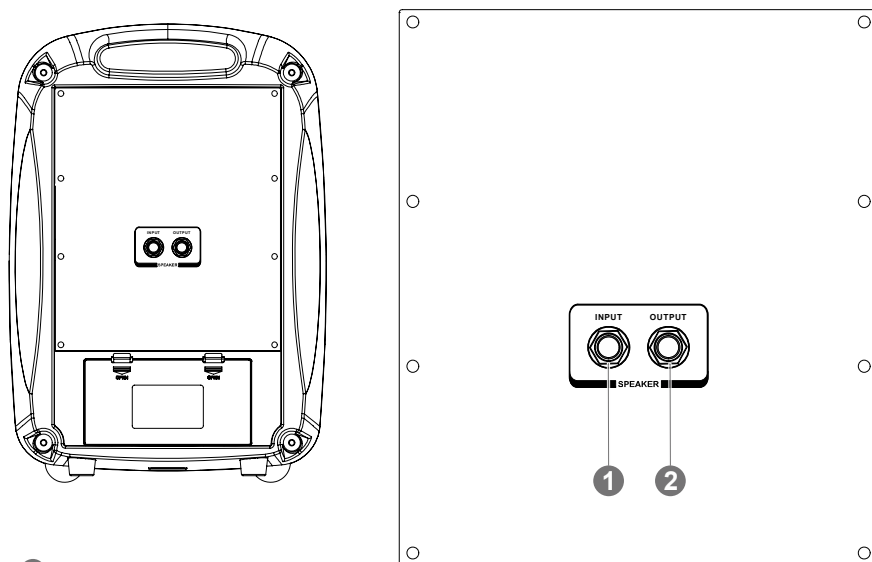
1 Amplifier input

2 peaker output(connecting with other speakers)

Receiver/handheld Transmitter

1.System Components

All the components include:

Receiver×1
Handheld Transmitter×1
USB connector×1
Headset microphone×1 (optional)
Clip-on microphone×1 (optional)
Charger×1 (optional)
USB cable×1
Hang rope×1
Power adaptor×1
Audio cable×1
Rack Panel×2 (optional)
UHF antenna×1
UHF magnetic antenna×1 (optional)
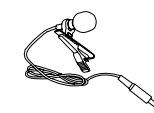2. 4GHz magnetic antenna×1 (optional)
User guide×1
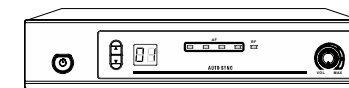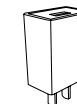

Receiver

Handheld Transmitter
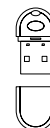
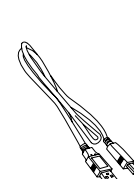USB connector   Headset microphone   Clip-on microphone   Charger
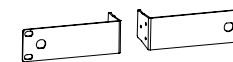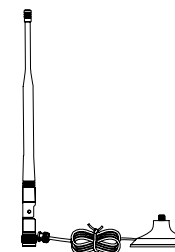
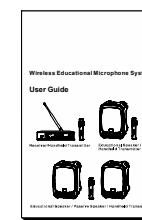USB cable   Hang rope   Power adaptor   Audio cable   Rack Panel

UHF antenna   UHF magnetic antenna   2. 4GHz magnetic antenna   User guide

2.Receiver

Diagram for Receiver

Front Panel
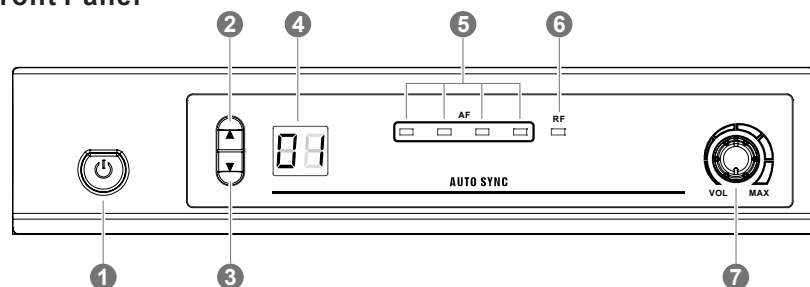
Functions

**1** Power Switch

2 Channel up selecting button

3 Channel down selecting button

4 Channel display port

　　Displays current working channel

5 Audio signal indicator light

　　Green indicator light keeps on if it receives audio signal.

　　Orange indicator light flashes if audio signal output reaches maximum.

　　Red indicator light flashes at audio signal distortion.

6 RF signal indicator light

　　It turns on when receiving transmitter's signal.

7 Output audio level control button

　　Turn left to decrease output audio level. Turn right to increase it.

Rear Panel
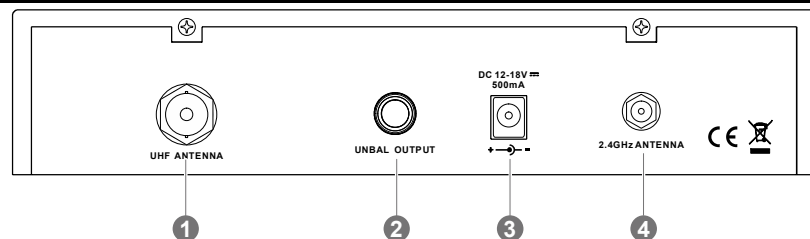
1 UHF antenna socket

2 1/4 inch output socket

3 DC power adaptor socket

4 2.4GHz antenna socket

3. Educational Speaker

Wireless receiver module

Speaker
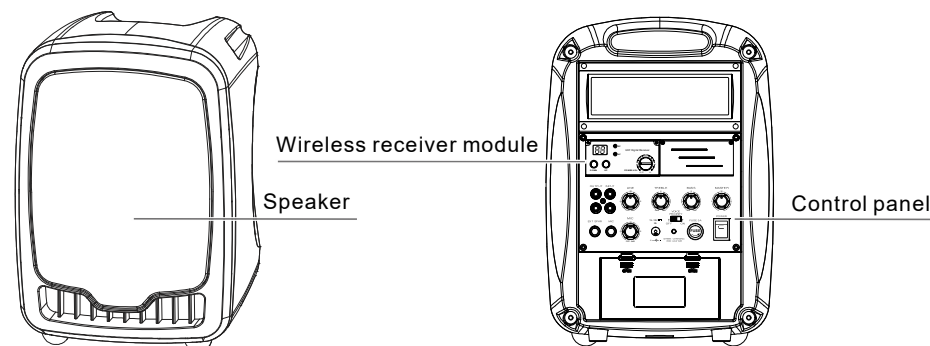
Control panel

Function area:

Speaker
Wireless receiver module
The receiver module has volume control buttons

Control panel :

Adjusting knobs: wired microphone volume, external sound source (LINE IN) input volume, treble and base volume, master volume; voice priority switch.
Input: wired microphone×1, external sound source(LINE IN) ×2
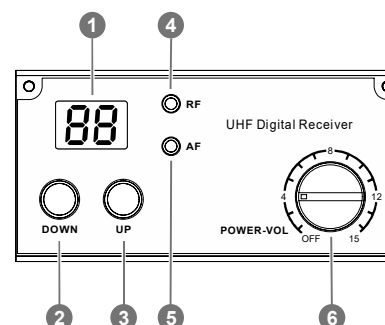Output: exit speaker/line out（RCA output）
External speaker（speaker)
LED display: low battery indicator light (red)；
When red light flashes quickly, the equipment is at low battery protection.
Flashes: green light flashes quickly for high voltage protection(19V)
DC Power: 15-18V adaptor input socket

4. Wireless Receiver Module

1 Nixie tube channel display

2 DOWN

3 UP

4 RF indicator

5 AF indicator

6 Power-vol: power switch, OFF means the equipment is off or for volume control.

Educational speaker×1
Passive Speaker×1
Handheld Transmitter×1
USB connector×1
Hang rope×1
Headset microphone×1(optional)
Clip-on microphone×1(optional)
Charger×1(optional)
USB cable×1
Audio cable×1
Power adaptor×1
Bracket & bracket rubber×1 (If the speaker is to be installed in the wall, please purchase the bracket and bracket rubber as well. One bracket is for one speaker)(optional)
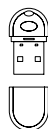User guide×1
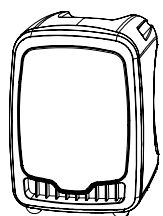
Educational speaker   Passive Speaker
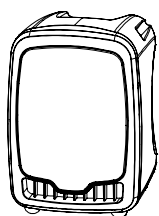
Handheld Transmitter
(for product description please refer to previous Handheld Transmitter introduction)
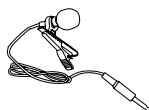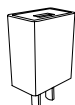
USB connector

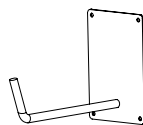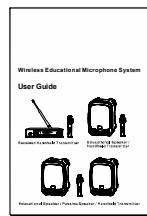Hang rope   Headset microphone   Clip-on microphone   Charger   USB cable

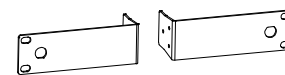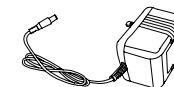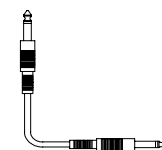Audio cable   Power adaptor   Bracket & bracket rubber   User guide

Rack Panel   Power adaptor   Audio cable

DC 12-18V
500mA

UHF ANTENNA   UNBAL OUTPUT   2.4GHz ANTENNA

Educational Speaker/handheld transmitter

1.System Components of Educational Speaker /handheld transmitter

Educational speaker×1
Handheld Transmitter×1
USB connector×1
Hang rope×1
Headset microphone×1(optional)
Clip-on microphone×1(optional)
Charger×1(optional)
USB cable×1
Power adaptor×1
Bracket & bracket rubber×1 (If the speaker is to be installed in the wall, please purchase the bracket and bracket rubber as well. One bracket is for one speaker)(optional)
User guide×1

Educational speaker

Handheld Transmitter
(for product description please refer to previous Handheld Transmitter introduction)

USB connector

Hang rope

Headset microphone

Clip-on microphone
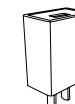
Charger

USB cable

Power adaptor

Bracket & bracket rubbe

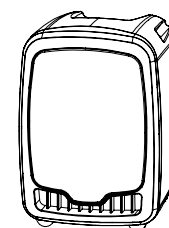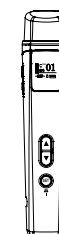User guide

Functions

1 Grill   **2** Screen   **3** Up selecting button   **4** Down selecting button

5 Setup□ laser light button
Setup button: coordinates with "VOL+" and "VOL-" buttons to set up;
regarding operation of laser light, please refer to instructions for more details.

6 Volume increases   **7** Volume decreases   **8** External microphone connector

9 Power□ mute button   **10** USB connector   **11** Infrared laser light

4.Specifications

Receiver

|	
RF Carrier Frequency Range	650～675MHz
Max. Channel Number	64
Frequency Bandwidth	25MHz
RF Sensitivity	□ -90dBm
Frequency Response	70～15KHz(±3db)
S/N Ratio	≥80dB（A）
T.H.D.	<0. 1% to 1KHZ
Dynamic Range	>85dB
Output Connectors	Φ6.35 Jack Connector
Audio Output Level	>+5dBV max
Power Requirements	DC12V/500MA
Dimensions(H*W*T)	44*212*100mm
Weight	500g

Handheld Transmitter

|	
RF Carrier Frequency Range	650～675MHz
Max. Channel Number	64
RF Power Output	≥3dBm
Spurious Rejection	>50dBc
Frequency Bandwidth	25 MHz
Max. Input Level	≥300MvRms at min. gain
Gain Adjusting Range	8dB
Power Requirements	3.7V/800mAh lithium battery *1
Battery Life	About 6h
Battery Charging Time	About 2.5h
RFID/Bluetooth Radiant Power	≥-10dBm
RFID/bluetooth Spurious Rejection	>50dBc
Dimensions(H*W*T)	31*144*31mm
Weight	65g

4.Instructions

Power save mode:

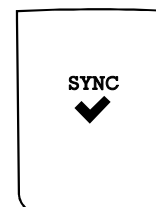Long press "VOL+" button, meanwhile, long press "SET" button to go into power save setting mode.

PowerSave
Sleep:
ON

PowerSave
TimeOut:
99
Minutes
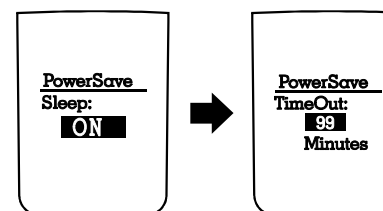
Select "ON" to go into time setup. The unit is minute. After set up time, press "SET" button to confirm.

PowerSave
Sleep:
OFF
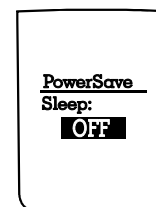
To exit power save mode, long press "VOL+" button. Meantime, select "OFF" and press "SET" button to confirm.
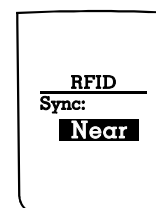
Synchronization :

SYNC
✔

Turn on both Tmic2-R receiver and Tmic2 transmitter. The transmitter displays "SYNC", which means automatic synchronization finishes.

Synchronizing distance setup:

Long press "VOL-" button, meanwhile, long press "SET" button to go into synchronizing distance setup.
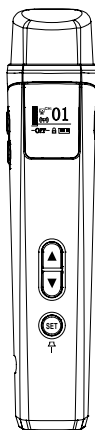
RFID
Sync:
Near

Select "Near" as near synchronizing distance, which is about 3 meters.

RFID
Sync:
Far
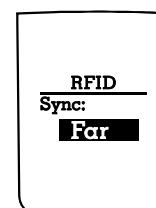
Select "Far" as far synchronizing distance, which is about 5 meters.

Infrared laser pointer :

Short press set、laser light button " (SET) " to use infrared laser pointer

Red beam transmits from "LASER" aperture about one second later.

⚠️ Notice: Transmitting infrared laser light directly to human eyes is forbidden, which may cause damage to human eyes.

PPT Page Turning Operation:

Plug USB receiving device into the USB connector of a computer.(Please make sure the USB connector is in good condition).

The computer will install program automatically to support USB receiving device.(The installation occurs only when USB receiving device is connected to the computer for the first time).

Short press " "▲up selecting button, the power point will turn page up. Short press " "▼down selecting button, the power point will turn page down. Long press " "up ▲ selecting button, the power point goes into full screen display. Long press " "▼down selecting button, the power point exit full screen display.
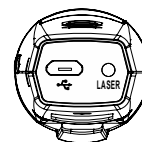
Charging :

To charge the transmitter, connect charger with USB cable, and then connect the other end of USB cable ⚡ to handheld transmitter USB connector.As shown below.
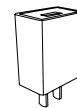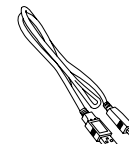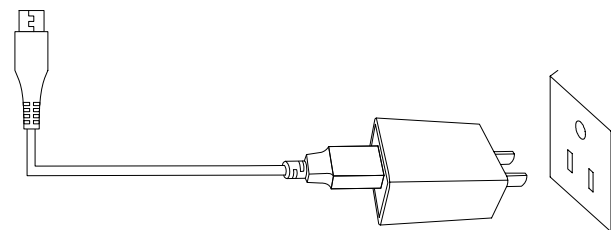

Charger   USB cable

Handheld Transmitter

If handheld transmitter is at low battery, please charge it as soon as possible. If it is unused for one month, please charge it at least once.
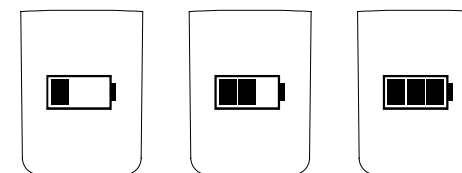
Charging Display Status:

Battery symbol flashes to the 1st bar while charging, which means the transmitter is 30% charged. If it flashes to 2nd bar, means the transmitter is 60% charged. To 3rd bar, means 90% charged, till it no long flashes, then it is fully charged. The battery symbol will vanish 10 seconds later.

How the transmitter screen shows when is on
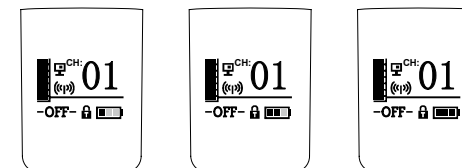
How the transmitter screen shows when it is off

30%   60%   90%