

AMPLIVOX[®]

PORTABLE SOUND SYSTEMS

User Guide

50 Watt Portable PA System with



Made in the USA

Thank you for choosing the **S222A / SW222A / SW223A / SW224A Portable PA System** from *Amplivox Portable Sound Systems*.

We are excited in introducing this truly unique system. Our system combines flexibility with functionality. Please refer to this user guide as you enjoy the unique capabilities of another quality product from *Amplivox Portable Sound Systems*.

We encourage you to visit our website www.ampli.com to register your product for its warranty coverage, sign up to receive our newsletter, download our catalog, and learn more about the complete line of *Amplivox* audio visual products, including portable PA systems, and lecterns.

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The Bluetooth® wordmark and logo is registered trademark owned by Bluetooth SIG, Inc. and any use of such marks by Amplivox Portable Sound Systems is under license.

IMPORTANT SAFETY INSTRUCTIONS

Before using this product, read the instruction manual for important safety information. Please retain this manual for future reference and warranty information.

Troubleshooting & Servicing

Do not attempt to service or repair the device yourself. Refer all servicing to qualified service personnel. Do not attempt to modify the device in anyway. Doing so could invalidate your warranty.

Cleaning

When cleaning the device, please use a soft, dry cloth. Never use benzene, paint-thinner, or other chemicals on the device.

Location

Place the device in stable location, so it will not fall causing damage to the device or bodily harm.

Intended use

The product may only be used with the original parts intended for it. The intended use includes adherence to the specified installation instructions. The manufacturer accepts no liability for damage arising due to improper use.

WARNING: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in this owner's guide.

IMPORTANT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The unit's circuitry may cause interference to nearby radios. To prevent interference, either switch the unit off or move away from the affected radio.

NOTE: This equipment complies within the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio technician for help.

PACKAGE CONTENTS

Model SW224A

- Wireless Audio Portable Buddy with two built-in 16 Channel UHF Wireless Microphone Receivers
- Wireless Handheld Microphone
- Lapel and Wireless Headset Microphone with transmitter bodypack
- Shoulder Strap

SPECIFICATIONS

Amplifier System

- Power Output - 50 Watt RMS into 4 ohms
- AC/DC Operation
- Stereo Speaker Output
- 3.5mm Line Output
- 3.5mm Line Input
- Separate Volume and Tone Control for Line Input

Bluetooth Receiver

- Effective range: 30 feet
- Version 4.0

Wireless System Model SW224A

- Two built-in UHF Selectable 16 Channel Wireless Microphone Receivers with RF Signal LED
- Wireless Range: 300 feet
- Frequency: 584 -608 MHz

INSTALL BATTERIES

Battery Power

1. The amp uses 10 " D " size Alkaline batteries (**not included**); or the optional rechargeable AmpliVox NiCad Battery Pack (S1465) and (S1460) AC adapter - purchase separately (**Fig 3**).
2. Open case and locate battery holder (**Fig 1**).
3. Lift the battery holder out (**Fig 2**).
4. Install 10 fresh Alkaline " D " size batteries. Be sure to observe the polarity when putting batteries in the battery compartment. The negative (flat) ends go against the springs. Carefully replace battery holder.

DO NOT MIX BATTERY TYPES OR ATTEMPT TO RE-CHARGE ALKALINE BATTERIES. EQUIPMENT DAMAGE, SAFETY HAZARD OR FIRE COULD RESULT.

Note: The battery holder cable comes from the factory already plugged into the connector. If it comes loose, push it in securely. (Turn the plug over if it doesn't fit; it only fits one way.)

5. Close case.



6. If using the S-1465 NiCad Battery pack (**Fig 3**), and S1460 AC Adapter/ Recharger power supply (both sold separately), plug into the "DC IN" jack on front panel of the amp. Plug into a working electrical outlet. Charge 24 hours for full charge before using.

Wireless Headphone/Lapel Bodypack Transmitter for Model SW222A / SW224A

- **Battery:** The wireless headphone transmitter bodypack (S1690T) is operated by 1 - "AA" alkaline battery. Before use, install battery as shown (**Fig. 4**). Make certain the battery is fully seated in its compartment so the cover slides in place easily. Battery life with alkaline batteries is approximately 8 hours of operating time. When LED on top panel turns to **RED** the battery should be replaced immediately.
- Plug the Lapel / Headset microphone into the Mic Input Jack (**C**). The Lapel microphone can be clipped to a necktie/shirt/blouse, using the supplied clip. The lapel mic should be placed under the chin, as close to the center of the body as possible
- Select Channel Number (**see features 16 & 17**)
- To turn on transmitter, slide the 3 position switch (ON / MUTE / OFF) (**B**) to the ON position (the LED indicator light will illuminate green). Replace batteries when this LED turns red.
- When wireless power switch (**15**) on control panel is turned on, the **RF LED** located next to the channel selector (**16**) will light, meaning that it is receiving signal. If **RF LED** does not light, check channel numbers to make sure that they are on the same number.
- When the RF LED is on, speak into microphone and rotate "VOLUME" control knob to obtain desired loudness level.
- **GAIN SWITCH (B):** If you are a soft spoken person then set the switch to the **10 dB** position. If you are a loud speaking person then set the switch to the **-10 dB** position. Adjust to prevent distortion while speaking.

Fig 1



Fig 2

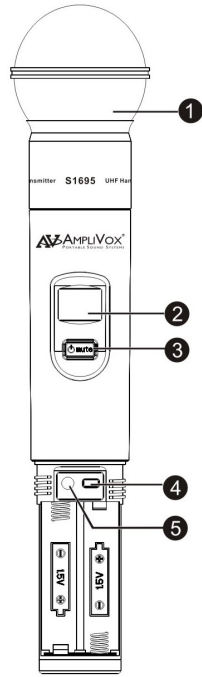


Fig 3



Fig 4





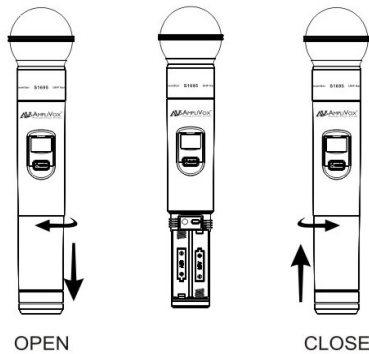
Functions

- 1) Interchangeable Microphone Head
- 2) LCD Screen (see below)
- 3) Power / Mute Control Switch (see below)
- 4) Select Button (see below)
- 5) Microphone Input Sensitivity Adjustment—is used to set the gain of microphone. If you are a soft talking speaker you will need to turn the control counter clockwise. Turn clockwise if you are a loud talker. Use plastic screwdriver that is supplied.

Microphone Operation and Status Display

BATTERIES

- 1. Hold the body of microphone in hand and twist off bottom section of microphone.
- 2. Insert two “AA” batteries.
- 3. Twist bottom section back on to microphone.



BATTERY STATUS

The life expectancy of the two batteries is about 10 hours. When the “**BATTERY**” symbol on the display screen keeps flashing the batteries should be replaced immediately

TURN ON MICROPHONE: Push and hold the “**POWER/ MUTE**” (3) button until LCD screen lights up.
TO MUTE: Press “**POWER/MUTE**” button twice to MUTE. Channel number will flash when muted. Press button again twice to remove “**MUTE**”.
TURN OFF MICROPHONE: Push and hold the “**POWER/ MUTE**” (3) button for 2 seconds to turn microphone “**OFF**”.



SELECT CHANNEL: Press and hold the “**SELECT**” (4) button for 2 seconds until you only see the word Channel and channel number. To change channel, when flashing, press the “**SELECT**” (4) button until you reach the desired channel. Flashing will stop after 10 seconds and channel is now set.



LOCK / UNLOCK CHANNEL: Push the “**POWER/MUTE**” (3) button and “**SELECT**” button at the same time to lock or unlock channel. When locked, channel cannot be changed. “**LOCKED**” symbol appears in upper left-hand corner.



WARNING ! Microphone channel selected must match the same channel number on the wireless microphone receiver or microphone will not work (SEE #16 ON PAGE 6).

AMPLIFIER FEATURES

15. Wireless ON/OFF Switch Model SW222A / SW223A / SW224A

14. DC In Jack - plug in optional Universal AC Adapter/ battery charger for power

13. Aux Out - for optional 12-15 volt accessory.

12. Condenser Mic Jack - 3.5mm for lapel or headset mic

11. Bluetooth Receiver - stream music from any Bluetooth wireless device.

10. Wireless Mic Jack - 3.5mm for optional wireless receiver

9. Auxiliary Line In - 3.5mm add music with a tape player, CD or MP3 player

8. Line Out - 3.5mm record your presentation with a recorder or on a computer



7. Left & Right Speaker Jacks - 1/4 "

1. Power Switch

2. Power Indicator Light

3. Mic Volume - controls all 3 mic inputs

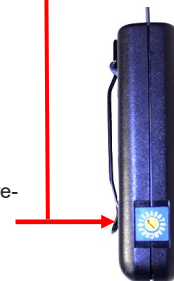
4. Dynamic Mic Jack - 1/4" for wired, hand-held mic.

5. Auxiliary Volume - controls the auxiliary input separately from the mic volume

6. Tone Control - for auxiliary input; counter clockwise for more bass; clockwise for more treble

17. Wireless Bodypack Channel Selector - rotate knob to select wireless channel. RF LED will light up on receiver when receiving signal from transmitter. Channel numbers must match

16. Wireless Channel Selector Model SW222A / SW223A / SW224A



1. Power Switch

2. Power Indicator Light - Turns red when power is turned on.

3. Mic Volume Control - This knob controls output loudness to all 3 microphone inputs and Siren.

4. Dynamic Mic Jack - Dynamic is one kind of microphone. AmpliVox's wired, hand-held microphone is this type.

5. Auxiliary Volume Control - This volume knob controls the auxiliary volume separately from the microphone volume.

6. Tone Control - This knob controls the tone of the auxiliary input. Turn counter-clockwise for more bass or clockwise for more treble. (The mic jacks don't need a tone control because they have been pre-optimized for the human voice.)

7. Left & Right Speaker Jacks - Two separately amplified speaker jacks allow you to use one or two speakers for additional sound power or true stereo output.

8. Line Out Jack - Can be used with tape recorder. The Line Out Jack outputs all the sound from the 3 microphone inputs and the auxiliary input.

9. Auxiliary Line In Jack - To play music, just plug in your CD player, MP3 player or AmpliVox's Bluetooth Receiver.

10. Wireless Mic Jack - You can add an Optional wireless receiver (S1690R) at a future date.

11. Bluetooth Receiver - Switchable ON / OFF

12. Condenser Mic Jack - With phantom power. If you don't know what phantom power is, then you don't need to know, but a condenser microphone won't work without it. If you have AmpliVox's lapel or headset microphone, you can plug it in here.

13. Aux Out - For optional 12-15 volt accessory.

14. DC In Jack - Used for the 12V Battery Cable, 12V Power Plug or the optional International AC Adapter/Recharger, plug it in here. Plug the other end into a wall / floor outlet.

15. Wireless ON/OFF Switch - Switches power on to the built-in 16 channel wireless receiver.

16. Wireless 16 Channel Selector - Channel that you select here must match with the channel that is selected on the handheld / bodypack microphone transmitter.

17. Wireless 16 Channel UHF Bodypack (S1690T) Channel Selector - Rotate knob to select wireless channel.

WARNING! When using two wireless microphones with the SW224A, you must select a different channel number for each microphone. If you select the same channel number, your wireless lapel / headset or handheld microphone will not operate.

OPERATION

- Plug wired handheld microphone into the **“DYNAMIC”** jack. Turn amplifier on. Turn microphone on and talk into microphone. Rotate **“VOLUME”** control knob to obtain desired loudness level.
- For Model **SW222A / SW223A / SW224A** with the built-in wireless receiver, the **“ON-OFF”** switch is located next to main power switch of amplifier. Make sure both transmitter and receiver are on same frequency channel. Turn **“ON”** wireless transmitter (Bodypack S1690T) or (Handheld S1695). **RF LED** on amplifier will light, meaning that it is receiving signal. If **RF LED** does not light, check channel numbers.
- For future reference a **SET-UP GUIDE** has been printed on top of the amplifier chassis.

BLUETOOTH PAIRING

- Locate on/off switch on side of chassis.
- Slide switch to **ON**. A blue LED will start to flash.
- On your Bluetooth device menu select **VUBT2** to start pairing.
- When successfully connected, the blue LED will stop blinking and remain lit.

MICROPHONE STORAGE

- **STORAGE COMPARTMENT:** Compartment will only hold one handheld microphone. Model SW223A / SW224A will also hold the bodypack and lapel microphone. The headset microphone can be placed on top of setup information area before closing the top half of case. The foam inside of the case half will hold headset in place.



Model SW224A shown with 2nd wireless installed.

PROBLEM SOLVING

FEEDBACK is the howl or screech often heard in sound reinforcement systems. It is caused by sound from the loud-speaker returning to the microphone. AmpliVox systems utilize proven acoustical principles to minimize this; however, there is no way to completely eliminate howl back under conditions of high amplification. If feedback occurs, check the following:

User's hand covering the head of the microphone. [Hold microphone under head slots.] Sound can easily re-enter microphone.

Keep loudspeaker turned toward audience. Note: sound can be reflected from a hard surface back through the microphone. [Turn speaker.]

User holding microphone in a reflecting position. [Turn microphone.]

Volume setting too high. [Reduce microphone channel volume; compensate by speaking louder or closer to the microphone.]

NO SOUND

Make sure amplifier **POWER** switch is turned on and red LED is lit. If switch is on and LED is not lit, check to see that batteries are properly connected and at full charge. If using optional power adapter, check to see that front panel connector is properly seated, and verify that the power source is live.

WARRANTY

Limited Six (6) -Year Warranty

AmpliVox warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below) for a period of six (6) years from the date of purchase ("Warranty Period").

During the Warranty Period, AmpliVox will repair or replace (at AmpliVox's discretion) this product or any defective parts ("Warranty Service").

Repair or replacement under the terms of this warranty does not give right to any extension or a new beginning of the period of warranty.

CLAIMS UNDER THE WARRANTY

To obtain Warranty Service, **contact AmpliVox (800-267-5486)** to be assigned a **Return Authorization number (RA#)**. After receiving a RA#, the defective unit is to be returned to AmpliVox in either its original packaging or packaging affording an equal degree of protection. You will bear the cost of shipping the product to AmpliVox. If the product is covered by the warranty, AmpliVox will bear the cost of shipping product back to you after the completion of service under this warranty.

Return shipping will be charged to you for products not covered by the warranty or requiring no warranty repair.

The following information must be presented to obtain Warranty Service: **(a)** the RA# must be clearly and legibly marked on the outside of shipping carton, **(b)** proof of purchase, which clearly indicates the name and address of the seller, the date of purchase and the product type, which is evidence that this product is within the Warranty Period. Please further include **(c)** your return address, **(d)** daytime telephone number, and **(e)** reason for return.

LIMITATION OF WARRANTY

This warranty is only valid for the original purchaser and will automatically terminate prior to expiration if this product is sold or otherwise transferred to another party. The warranty provided by AmpliVox in this statement applies only to products purchased for use, and not for resale. It does not apply to open box purchases, which are sold "as is" and without any warranty. Specifically exempt from warranty are limited-life consumable components subject to normal wear and tear, such as microphone windscreens, ear cushions, modular plugs, ear tips, decorative finishes, batteries, and other accessories. This warranty is invalid if the factory-applied serial number, date code label, or product label has been altered or removed from this product. This Warranty does not cover cosmetic damage or damage due to misuse, abuse, negligence, Acts of Nature, accident, disassembling or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than AmpliVox. Any unauthorized repairs will void this warranty.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. AMPLIVOX SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER, INCLUDING BUT NOT LIMITED TO THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

NOTE! This warranty gives you specific legal rights. You may have other rights which vary from location to location. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or implied warranties, so the above exclusions may not apply to you. This warranty does not affect your legal (statutory) rights under your applicable national or local laws.



Dispose of the product according to local standards and regulations

April, 2017