

# VOICE PROJECTOR WITH WIRELESS POWERED SPEAKERS SW227

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## WHATS IN THE BOX?

1. SW225 Voice Projector
2. S1204 Wireless Speaker
3. S1670 Wireless Transmitter with connecting cable
4. Two S1090 Tripods
5. Rolling Case
6. Wireless headset and lapel mic with transmitter
7. Computer Interface Cables



6.  
HEADSET & LAPEL  
W/ TRANSMITTER



7.  
STEREO CABLE  
PROJECTOR CABLE

Thank you for choosing the **SW227 Voice Projector with Wireless Powered Speakers Kit** from AmpliVox Portable Sound Systems. 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. As always, you can reach us at 800-267-5486, or at 847-489-9000, Monday - Friday 8am - 6pm CST.



## USER GUIDE

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# BATTERY INSTALLATION / SET-UP:

## INSTALL POWER SUPPLY IN ALL COMPONENTS:

**IMPORTANT!** Do not mix battery types or attempt to recharge alkaline batteries. Equipment damage, safety hazard or fire could result. Remove batteries if the unit is not going to be used for long periods of time to prevent leakage.

**SW225 Wireless Voice Projector:** Runs on AC power or battery power. The battery carriage holds 10 D-cell alkaline batteries or our S1465 NiCad battery pack (requires S1460 AC adapter to recharge). Or run on a 12 Volt DC adapter (automotive cigarette lighter plug-in, not included).

**S1204-70 Wireless Powered Speaker:** Runs on AC power or battery power. The battery carriage holds 10 D-cell alkaline batteries or our S1465 NiCad battery pack (requires S1460 AC adapter to recharge). Or run on a 12 Volt DC adapter (automotive cigarette lighter plug-in, not included).

**For both the 1204-70 and SW225:** Loosen four thumbscrews and remove battery door from back of speaker. Remove battery carriage. Insert 10 D-cell alkaline batteries, observing polarity, or replace with fully charged S1465 NiCad battery pack. Carefully replace the battery carriage. Reposition battery door and fasten the thumbscrews.

**S1670 Transmitter Power Supply:** Requires one 9-Volt battery or a 9-Volt AC adapter (not supplied). Remove battery door on back of transmitter. Insert one new 9 volt alkaline battery, observing polarity, and replace the door.

**Lapel & Headset Mic Battery Installation:** Requires one 9-Volt battery or a 9-Volt AC adapter (not supplied). Remove battery door on back of

transmitter. Insert one new 9 volt alkaline battery, observing polarity, and replace the door.

## SET-UP WIRELESS TRANSMITTER FOR THE S1204-70 SPEAKER:

**PLEASE NOTE: YOU HAVE TWO SEPERATE TRANSMITTERS. ONE IS FOR THE SPEAKER AND THE OTHER IS FOR THE MICROPHONE.**

**SPEAKER = BEGINS WITH 169**

**MIC = BEGINS WITH 171**

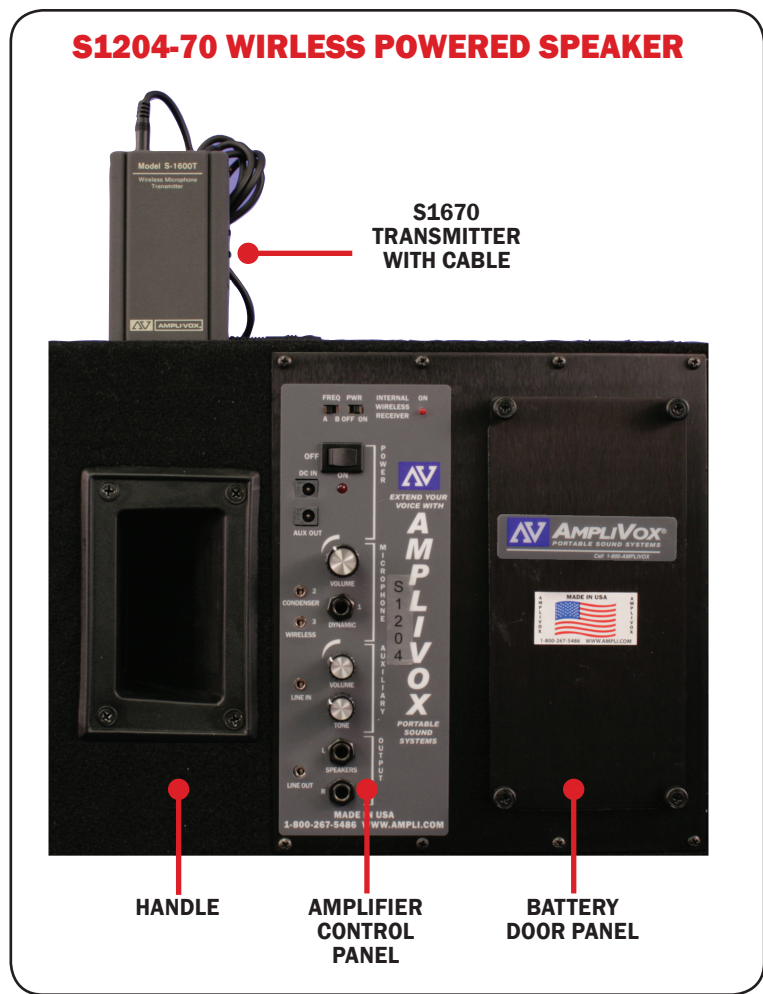
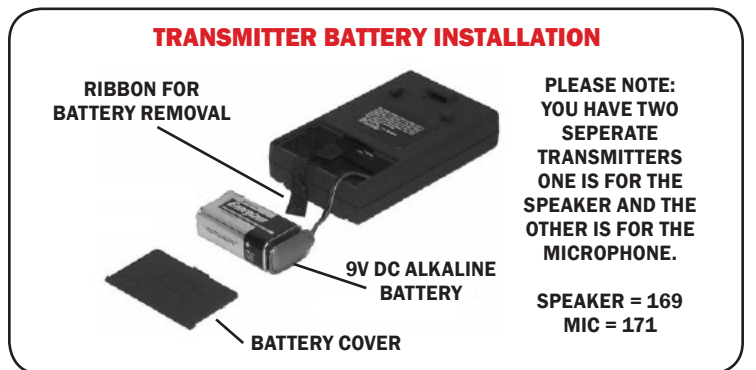
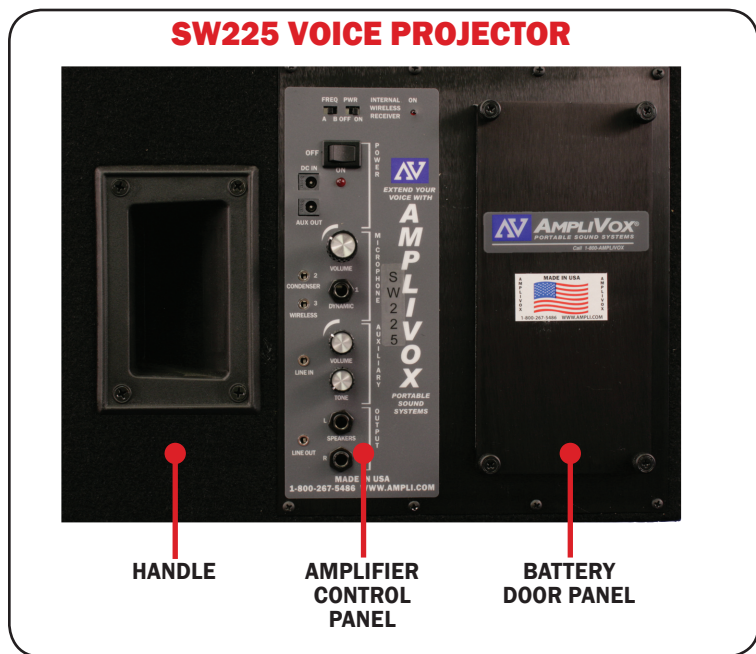
Connect provided cable from the MIC INPUT JACK on the S1670 transmitter (labeled 169) into the LINE OUT JACK (\*see image on next page) on the Amplifier on the SW225 Voice Projector. Turn SW225 Amplifier ON. Turn S1670 transmitter ON. Make sure frequencies MATCH. Turn S1204-70 Speaker Amplifier ON. The red light should illuminate.

**NOTE:** If for any reason the S1670 transmitter frequency is changed from its factory set position A please reset to A. The internal wireless receiver is preset to A.

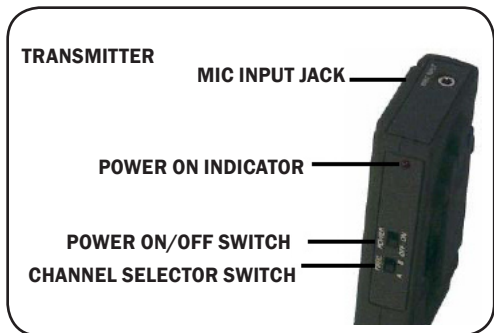
**NOTE:** The frequencies used by the S1204-70 Speaker and the S1670 transmitter are not on clear channels and may be used by other devices. If the unit receives interference and if you are unable to use the S1670 transmitter, connect the LINE OUT on the SW225 Voice Projector to the S1204-70 LINE IN using a 3.5mm miniplug cable. Turn the volume control on the S1204-70 speaker completely down.

## SW225 WIRELESS MIC SET UP:

Plug headset or lapel microphone into transmitter labeled with 171, select A or B frequency, turn power switch ON. A red light should come on. Turn SW225 on with the main power switch. When the power switch is in the ON position, the red light will be on. Turn wireless receiver power switch on and select matching frequency to the mic transmitter,



# CONTROL PANEL



either A or B. Both the microphone transmitter and the amplifier have to be on the same frequency for the wireless mic to work properly. If you encounter interference, switch frequencies. Rotate VOLUME control knob on the amplifier to obtain desired loudness level throughout the coverage area.

The microphone has an **ON/OFF switch**. it should always be in the OFF position until the main power is ON and you are ready to speak.

The VHF wireless microphone system is compact, lightweight and compatible with all AmpliVox VHF wireless systems. The wireless mic operates in an authorized VHF band and has a useful range of up to 200-ft. in line-of-sight applications. Each system operates on two crystal-controlled, switch selectable frequencies for clear clean transmission.

**“A” Channel**      **“B” Channel**  
**T6: 171.105 MHz**    **T7: 171.845**

## WIRELESS MIC SET UP

The frequency appears on the back of each unit. Both transmitter and receiver must have the same, and both units must be set to either “A” or “B.” Note that two transmitters on the same frequency will not work with one receiver. However two or more receivers will work with the same transmitter. Before use, make certain you understand the function and operation of the system.

## MAIN POWER SWITCH

The **MAIN POWER** switch is located on the control panel. Flip the rocker switch to the ON position. The red light next to the switch will light up showing that the power is on.

## DC INPUT

Connection for an optional external power adapter.

## AUX OUT

Power source for 12 to 15V DC accessories.

## MASTER VOLUME

Controls the volume level of the microphones, including the wireless microphones.

## MICROPHONE INPUTS

There are three microphone inputs, which can be used simultaneously:

**DYNAMIC** - for standard dynamic microphones, 1/4 in.

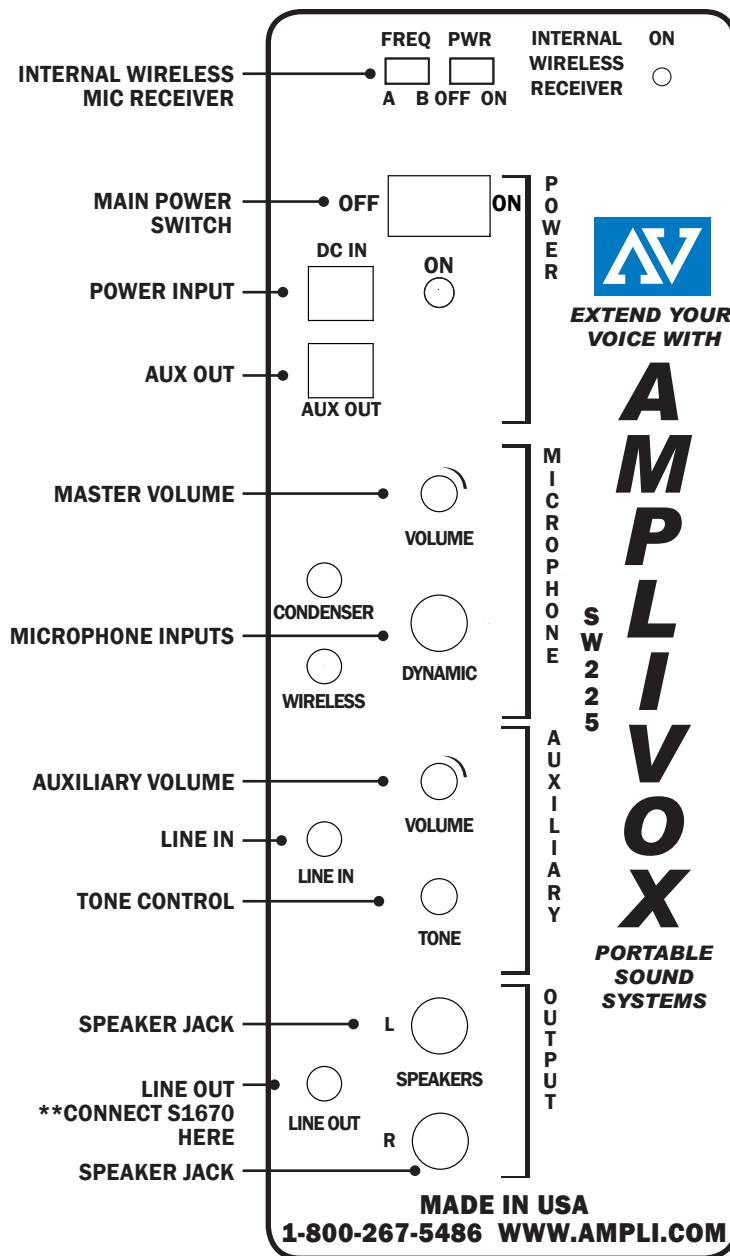
**CONDENSER** - for electret or condenser microphones, which require phantom power (supplied from the amplifier) 3.5 mm

**WIRELESS** - accepts output from an external wireless microphone receiver

## AUXILIARY

The **LINE IN** provision is for connecting an external audio source such as a CD player, tape player, MP3 player or computer sound card This input also serves as a provision for connecting additional wireless microphone receivers, audio mixers and other line level audio sources.

Separate **VOLUME** and **TONE** control knobs allow flexibility in controlling the sound quality as well as balancing the auxiliary source with the microphones.



## OUTPUT

The **LINE OUT** provision may be used for connecting to an input on a recording device, such as a computer sound card, MP3 recorder, tape recorder, or similar device. The **LINE OUT** can also be used for a number of other applications, such as connecting to a house system, or connecting to one of our wireless speaker transmitters, for example.

## EXTERNAL SPEAKERS

Two separately amplified speaker jacks allow you to use one or two S1201, S1290, or any of our horn speakers for additional sound power.

Note: when using a stereo **AUX** source with a single speaker, only one of the stereo channels will be heard. However, all MIC inputs are heard equally on both channels.

## RF INTERFERENCE

Please note that wireless frequencies are shared with other radio services. According to the Federal Communications Commission

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regulations, "Wireless microphone operations are unprotected from interference from other licensed operations in the band. If any interference is received by any Government or non-Government operation, the wireless microphone must cease operation..." If you need assistance with operation of frequency selection, please contact your dealer or AmpliVox. Additionally There are models available for use in Canada.

### POWER SOURCE

The transmitter and receiver are each operated by a 9V alkaline battery. Before use, install a battery as shown. 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. The receiver also features an external jack for connecting a 9V DC power supply (not included).

### TRANSMITTER OPERATION

If there is a "dead spot" in a room, try a slight change of position or try changing frequencies. Each unit provides two selectable transmitting frequencies.

- 1) Switch the Frequency Selector Switch to the desired channel (A or B).
- 2) Belt clip on the back of the unit clips the transmitter onto a belt or the transmitter simply can be put into a pocket.
- 3) Plug the microphone into the Mic Input Jack.
- 4) The microphone can be clipped to a necktie or other clothing, using the supplied clip.
- 5) Slide the power ON/OFF switch to the ON position (the LED indicator light will illuminate).

### HELPFUL HINTS

- A) If the selected channel is noisy, switch both the transmitter and receiver to the other channel.
- C) Low ceiling fluorescent lighting, overhead telephone lines, or close proximity to metal fences can all cause static. If this occurs, try a slight change of position and/or try changing frequencies.
- D) When the battery voltage drops below 6V, the LED indicator will go out. This means you need a new battery.
- E) Be sure to turn off the power whenever the units are not in use, and remove the batteries if the units will be out of service for a long time.
- F) Cellular telephones cause interference with the wireless mic. Please ask your audience to turn off their cell phones.

NOTE: There are no user-adjustable parts inside the transmitter or receiver Do not attempt to open or make any adjustments

### BELT CLIP

A detachable belt clip is included for convenience. Slide the tapered end of the belt clip into the grooved area located on the back of the unit until it clicks into place.

### PROBLEM SOLVING

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

1. User's hand covering the head of the microphone. (Hold microphone under head slots.)
2. 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.)
3. User holding microphone in a reflecting position. (Turn microphone.)
4. Volume setting too high. (Reduce microphone channel volume; compensate by speaking louder or closer to the microphone.)



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