

# Warranty statement.

## Sound Projections Six Year Limited Warranty.

Your Sound Projections SM-3neo is warranted to be free of defects in materials and workmanship for a period of 6 years from the date of original purchase, subject to the following conditions:

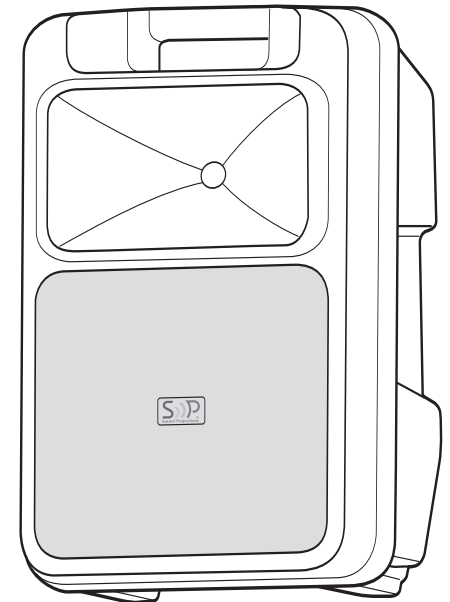
- This warranty excludes defects caused by normal wear, abuse, shipping damage, or failure to use product in accordance with instructions. All warranty service must be performed or authorized by Sound Projections. Any service or modifications performed without authorization from Sound Projections may void this warranty.
- The Ni-MH rechargeable battery in SM-3neo models is warranted for a period of 3 years.
- Wireless microphone and CD/MP3 player options are warranted for a period of two years.
- Prior to returning your system for repair and/or warranty service, please contact our customer service department at the address below for a Return Authorization (RA) number.

Sound Projections  
22130 South Vermont Avenue, unit E  
Torrance, California 90502  
(310) 618-9619  
Fax (310) 618-9620  
[www.soundprojections.com](http://www.soundprojections.com)  
[info@soundprojections.com](mailto:info@soundprojections.com)



560-20 Rev A, SM-3neo, 07/06

# User Guide Sound Machine SM-3neo



# Welcome

Congratulations on purchasing a portable sound system from Sound Projections. Our products combine superior design with quality components and rugged construction. We're proud of the products we manufacture, and appreciate the confidence you've shown by choosing us.

Please take a few of minutes to read this user guide. Our products incorporate many unique features, and your knowledge of them will enhance the performance of your system.

John Munroe, President  
and the entire staff at Sound Projections

# Unpacking

## System inspection and inventory.

Check the unit carefully for damage which may have occurred during transit, and contact the freight carrier immediately should you find damage.

## Save the shipping carton and packing materials.

The shipping box was designed to ship your unit safely.

# Contents

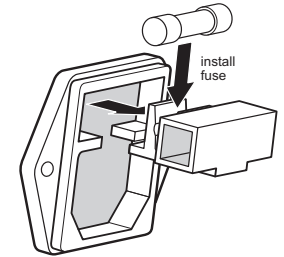
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# Replacing the fuse.



**Warning!** Replace fuse with same type and rating as indicated on panel.

1. Remove power cord plug from panel mounted AC receptacle
2. Pry fuse carrier away from receptacle with small screwdriver
3. Remove fuse to be replaced.
4. Install new fuse
5. Insert fuse carrier with new fuse back into receptacle
6. Plug power cord back into AC receptacle

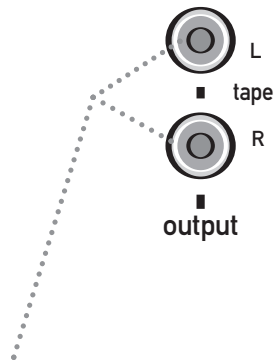


# Specifications for SM-3neo.

Rated power output.....	200 watts dynamic
Max SPL.....	127 dB 'loud' mode
.....	120 dB 'no
Frequency response .....	65 Hz - 16 kHz
Wireless system (optional) .....	Shure 90 channel auto-scan
Battery life .....	6-8 hours typical
Power requirements .....	115 / 230 VAC - 50/60 Hz
Dimensions (HWD) .....	58 x 38 x 33 cm
Weight .....	15.kg.(33 pounds)
Inputs .....	(2).mic.level, balanced, XLR
.....	(1).line.level, balanced, XLR..
.....	(1).line.level, 1/4". phone.....
.....	(1) tape/CD
Outputs.....	(1) line level, balanced, XLR
.....	(1) line level
.....	(1) tape/CD
.....	(1) speaker

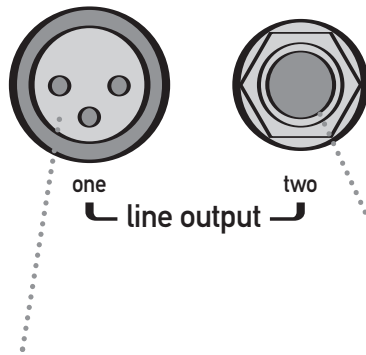
Specifications and models subject to change without notice

# Using the outputs.



Connect RCA outputs to a tape player's input to record the sound system.

The tape output is a line-level, summed and composite signal of the sound system inputs.



Connect line output one to the balanced input of another system for daisy-chain applications.

Line output one is a balanced, low-impedance and composite signal of the sound system inputs.

Connect line output two to a tape player's input to record the sound system.

Line output two is an unbalanced, line-level and composite signal of the sound system inputs.

# Important safeguards



**CAUTION:** To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel.

**ATTENTION:** Pour éviter les risques de choc électrique, ne pas enlever le couvercle. Aucun entretien de pièces intérieures par l'utilisateur. Confier l'entretien au personnel qualifié.

**WARNING:** To prevent fire or electric shock, do not expose this equipment to rain or moisture.

**AVIS:** Pour éviter les risques d'incendie ou d'électrocution, n'exposez pas cet article à la pluie ou à l'humidité.

## Explanation of graphical symbols.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans.



The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## Explication des symboles graphiques.



Le symbole éclair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampleur suffisante pour constituer un risque d'électrocution.



Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour la fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

# Getting started.

Whether you're a first-time user or an experienced presentation professional, the Sound Machine SM-3neo was designed with you in mind. Easy to use and loaded with features, you'll need only a few minutes to set up and begin operation. This user guide is full of valuable information — please read it!

## !! Charge the battery!

The battery should be charged before the first use and before each use thereafter when using battery power. See “Charging the battery” on page 5.

## 1. Set up the sound system in front of your audience.

Proper set-up is important. For best sound distribution, put the unit on a speaker stand or table so the sound projects over the audience.

### Connecting an SM-3C Companion Speaker.

For expanded crowd coverage, connect unpowered companion speaker SM-3C to the speaker output jack on the lower panel of the Sound Machine.



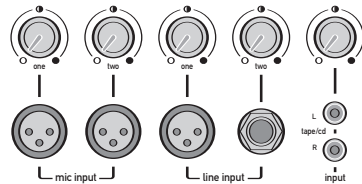
Note: The speaker output is designed specifically for use with the Sound Machine SM-3C companion speaker and SC50-4W cable — do NOT use other type external speakers or damage may result!

## 2. Plug a microphone or audio source into an input jack.

Connect a microphone, tape player or other source to the matching input jack; turn down the corresponding volume knob before turning on the SM-3neo.

(See “Choosing an Input” on pages 6-7 for more information on input selection.)

If using the optional CD player or a wireless microphone system, use the corresponding knob to control the input volume (see separate instructions for operation and features of optional equipment).



# CD operation.

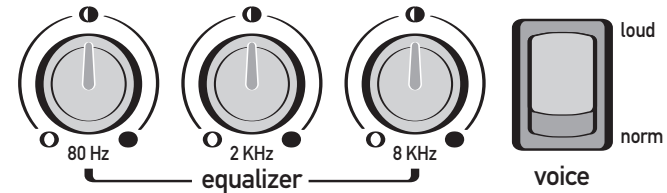


**Note:** See insert for detailed operation of the CD player.

Open the lid, insert your CD and press the play button. Adjust volume to the desired level using the push buttons on the CD volume control on the panel. Do not adjust the volume buttons on the CD player.

# Setting the EQ controls.

Use the 3 equalizer (tone) controls to adjust for best sound quality and clarity. The top-center mark indicates a ‘flat’ response.



### For indoor and/or music playback:

Set the controls to the flat (12 o'clock) position, then adjust for desired sound quality (be sure the voice switch is in the “norm” (normal) position).

Set the voice switch to the “norm” position when playing music and for most indoor applications.

### For outdoor / voice applications:

Set the voice switch to “loud” for outdoor and other applications where powerful voice projection is needed.

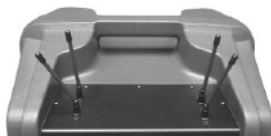
Turn the 80 Hz control to the 9 o'clock position for maximum voice clarity (and longer battery life).

# Wireless mic operation.

Operating the optional wireless microphone system.

**!** **Note:** See insert for detailed operation of the wireless system and setting / synching channels.

Raise the paired left / right antennas at an angle; single wireless options will have two antennas, dual wireless will have four.

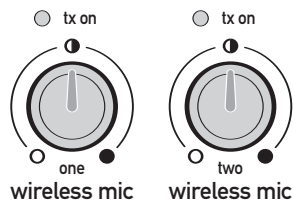


Install two new AA alkaline batteries in the transmitter for best results.

The wireless transmitter (microphone or beltback) uses a single push switch for “on”, “mute” and “off”. Press the switch for 1 second for “on” (LED green), push again for “mute” (LED orange), push again to return to “on.”

Push and hold this switch for 2 seconds and the transmitter will turn off (LED off).

The two panel knobs marked “wireless mic” control the volume of the wireless system in use. The red LED above each knob indicates the receiver is locked to the transmitter.



## Using talkover.

Press the red button to use the “talkover” feature, which automatically lowers the volume of all other inputs (including optional CD) when speaking on the microphone.

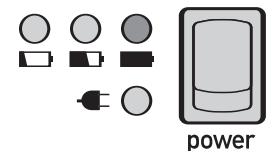


**When to use talkover.**

Use talkover when making voice announcements over music or other program material being played through the sound system (without having to manually adjust the other volume controls). When you stop speaking into the microphone, the volume on other inputs smoothly returns to normal in 3 seconds.

Note: The talkover feature is assigned to optional wireless mic 1 if installed; otherwise, it is assigned to the mic 1 XLR input.)

3. Turn the power switch ON (plug in power cord for AC operation). Observe LED indicators to confirm battery level and power.



**Battery Power** (upper LED's): The green light indicates the battery is at or near full charge and ready to use. The yellow light means 30-60% usage remains, and red means less than 30% remains and that the battery should be charged before use (see “Charging the battery.” )

**AC Power** (lower LED): The SM-3neo automatically runs on AC power whenever the unit is plugged in and turned on. The green indicator on the bottom row will light indicating full AC operation.

4. Adjust the volume level and sound quality.

Increase the volume of the input being used to desired level (be sure the microphone or input source is turned on!) Adjust equalizer and set voice switch as necessary (see pages 6, 7 and 9 for more details).

## Charging the battery.

- !! For maximum operating time, charge the battery after EVERY use.

While it does not harm the battery if the SM-3neo is left in a partially discharged state, over time the battery's self discharge will result in a low battery. Optimum charging will be achieved when the battery is charged between 0 and 40 degrees Centigrade (32 and 104 degrees F). If the outdoor environment is unusually warm or cold bring the system indoors before charging. (The Sound Machine may be left plugged into an AC outlet during storage for optimum results.)

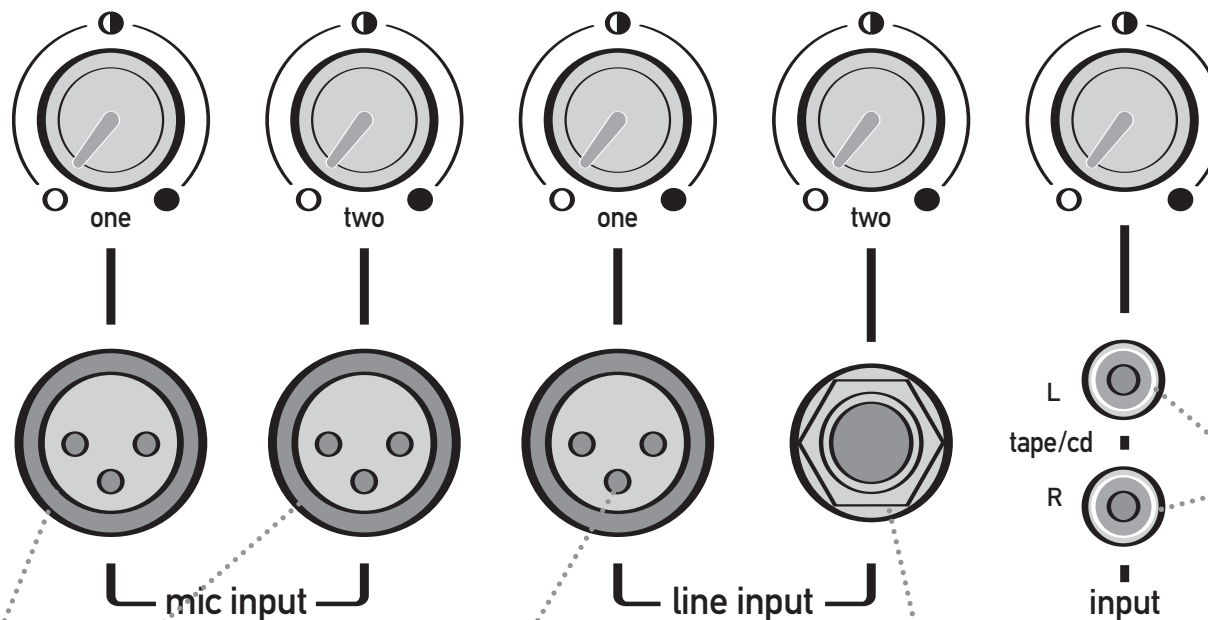
**Charging the battery.**

Plug the cord into a standard AC outlet to charge the battery. The unit automatically begins charging, indicated by the flashing charge LED.



When the charge LED lights steady, the battery is fully charged and the unit is ready for use or storage.

# Choosing an input.



Plug a microphone with an XLR connector into mic input one or two. The knob above the jack controls the volume level.

The mic inputs are balanced and low impedance, and supply phantom power (15 volts) for condenser type microphones.

When using long mic cables, use a balanced microphone to help prevent hum and interference.

Plug a balanced, line-level source with an XLR connector (such as the output from a mixer) into line input one. The knob above the jack controls the volume level.

Line input one is a balanced line level input.

Use shielded cable to avoid hum or interference.

To daisy-chain two sound systems together for greater crowd coverage, connect the line output from one system into line input one.

Plug any line-level source with a 1/4" phone plug (tape player, music instrument, etc) into line input two. The knob above the jack controls the volume level.

Line input two is an unbalanced line level input.

Use shielded cable to avoid hum or interference.

Plug the outputs from a tape player or external CD player with RCA jacks into the tape/cd input. The knob above the jack controls the volume level.

The tape/cd input is a line level input.

This is a summing input, meaning the left and right channels will combine for a mono input signal.