

# user guide



## Sound Machine SM-2+

### Start Here!

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

#### !! Charge the battery!

The battery MUST be charged before the first use and before each use thereafter when using battery power. See "Charging the Battery."

#### 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-2C Companion Speaker.

*(note: The speaker output is not included on models with "option 4".)*

For expanded crowd coverage, connect an unpowered companion speaker model SM-2C to the "bi-amp speaker output" jack located on the lower control panel of the Sound Machine.

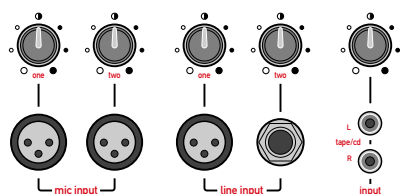


bi-amp speaker output

*Note: The bi-amp speaker output, companion speaker (SM-2C) input and connecting cable (SC50-4W) have a 4-wire configuration designed specifically for use with the Sound Machine's bi-amp design — do NOT use other type external speakers or damage to it or the SM-2+ 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-2+. (See "Choosing an Input" on back for more detailed information on input selection and specifications.)



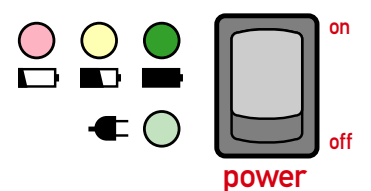
If using the optional CD player or a wireless microphone system, use the corresponding knob to control the input volume (see separate instructions for operation and features of optional equipment).

Sound Projections® brand products are warranted to be free from defects in materials and workmanship for a period of 3 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 a product in accordance with instructions. Any service or modifications performed without authorization from Sound Projections may void this warranty.
- The internal rechargeable battery and the optional OPT-01 CD player are warranted for a period of one year.
- Prior to returning your unit for repair and/or warranty service, please contact our customer service department at the address below for a Return Authorization (RA) number.

## Three Year Limited Warranty

#### 3. Turn the power switch ON (plug in power cord for AC operation). Observe the 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-2+ 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 VoicePower switch as necessary (see back page for more details).

## Charging the Battery

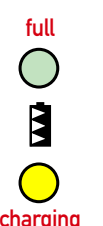
#### Charge the battery completely after EVERY use.

The performance of the built-in battery will be greatly improved if the system is charged *completely* after each use — storing the unit in a partially-discharged condition will reduce the service life of the battery. (The Sound Machine may be left plugged into an AC outlet during storage for optimum results.)

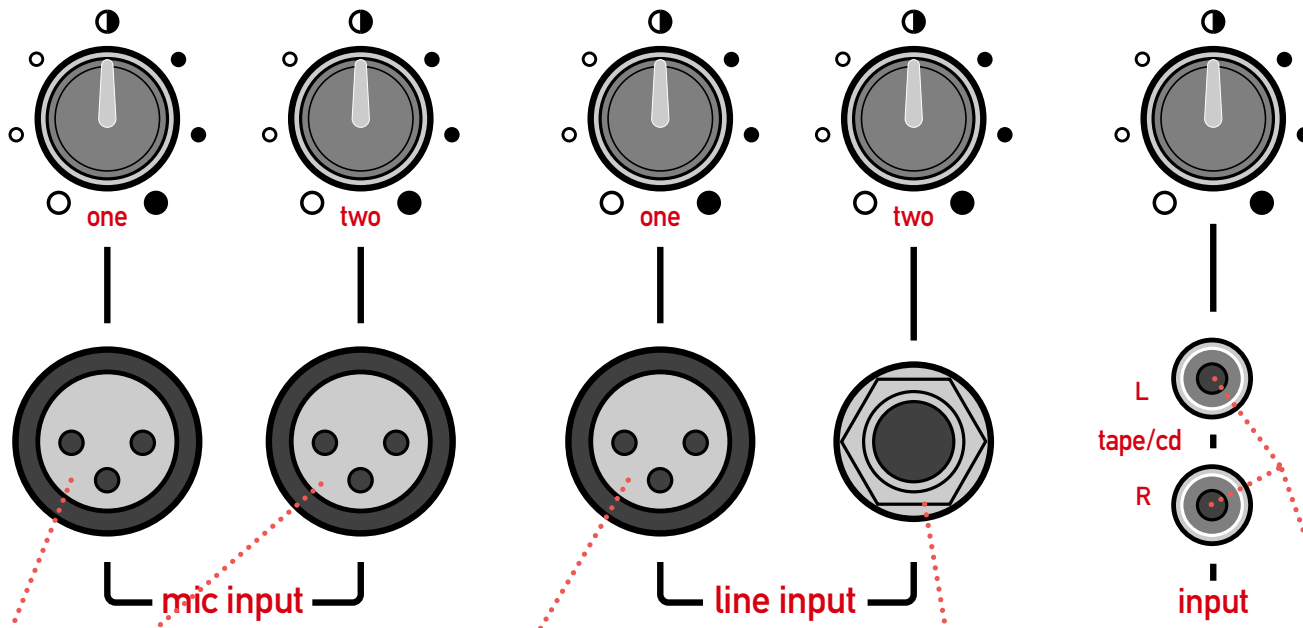
#### Charging the battery.

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

When the green "full" 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.

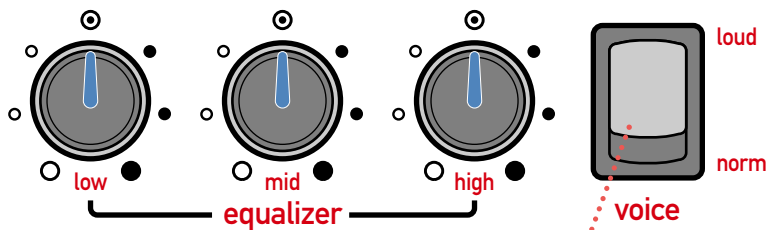
Use shielded cable to avoid hum or interference.

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.

## Setting the EQ Controls



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

For indoor and/or music playback, set all controls to the flat (12 o'clock) position and then adjust for desired sound quality (be sure the voice switch is in the normal position).

For outdoor / voice applications, turn up the mid control for better sound projection.

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

Set the voice switch to the "normal" position when playing music and for most indoor applications.

## Wireless Mic Operation

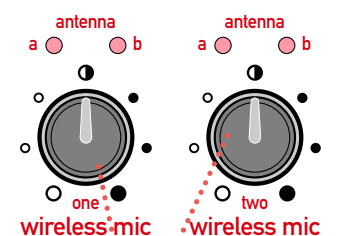


Operating the optional Wireless System.

Raise both the left and right antennas up and out at a 45° angle for the wireless system in use — on top of the unit towards front for wireless one, towards the rear for wireless two).

Install a new 9 volt ALKALINE battery in the transmitter for best results.

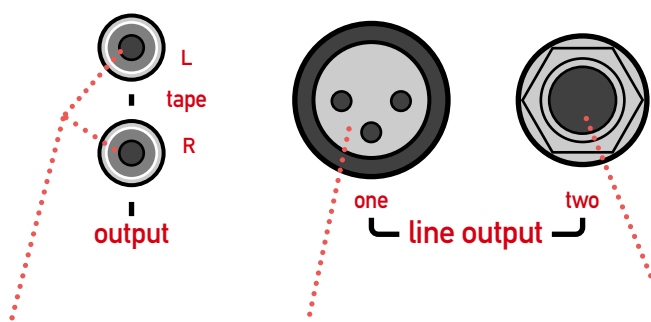
The wireless transmitter (microphone or belt-pack) has a 3-position ON/STANDBY/OFF switch. Be sure the switch is in the ON position for normal operation (use the ST.BY position  ON  ST.BY  OFF when not speaking to prevent interference).



These knobs control the volume level of the optional built-in wireless microphone system(s).

The two knobs marked "wireless mic" control the volume of the wireless mic in use (system one or two); the red LED's above each knob indicate the automatic diversity function of the receiver (flickering back and forth is normal, indicating optimum signal is being received).

## Using the Outputs



Connect the 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.

## CD Operation

Open the lid, insert your CD and press the play button. Adjust volume to the desired level using the push buttons on the CD player or the corresponding volume control on the panel (depending on your model of CD player).

See insert page describing the features and operation of your CD player.

## Using Talkover

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



Useful when making voice announcements over music or other program material — your audience will hear you clearly without having to manually adjust volume controls. The volume on other inputs smoothly returns to normal 3 seconds after you stop speaking into the microphone. (note: The talkover feature is assigned to optional wireless Mic 1, or the Mic 1 XLR input if no wireless microphone is installed.)