

user guide



Freedom FR-2

Start Here!

Whether you're a first-time user or an experienced presentation professional, the Freedom FR-2 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!

Your Freedom sound system will arrive with the battery at or near full charge. The battery should be recharged after every use, and also if stored over 30 days after charging. See "Charging the Battery."

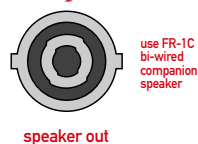
1. Set up the sound system in front of your audience.

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 FR-1C Companion Speaker.

(note: The speaker output is not included on models with "option 44".)

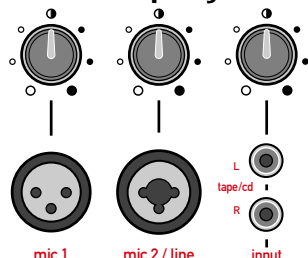
For expanded crowd coverage, connect an unpowered companion speaker model FR-1C to the speaker output jack located on the control panel of the Freedom.



Note: The speaker output, companion speaker (FR-1C) input and connecting cable (SC55-4W) have a 4-wire configuration designed specifically for use with the Freedom — do NOT use other type external speakers or damage to it or the FR-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 FR-2. (See "Choosing Inputs and Outputs" for more information on input selection.)



If using the optional wireless microphone system, use the corresponding knob to control the input volume. The optional CD player may have a volume control on the panel or electronic volume control push-buttons on the CD player (see separate instructions for operation and features of optional equipment).

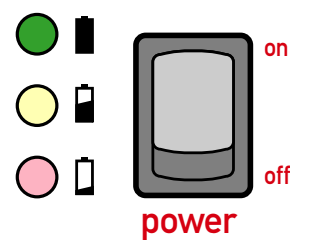
Sound Projections® brand products are warranted to be free from defects in materials and workmanship for a period of 3 years from the date of original purchase, subject to the following conditions:

- 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 option 11 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. Observe the LED indicators to confirm battery level and power.

Battery Power: 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 the battery should be charged before use (see "Charging the Battery.")



When plugged into AC power (100 to 250 VAC), the green LED will stay on constantly as the system is being powered from the AC line and not the battery. Occasionally, when playing loudly, the power LED's may flicker back and forth between green and yellow - this is normal.

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 tone controls 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 Freedom may be left plugged into an AC outlet during storage for optimum results.)

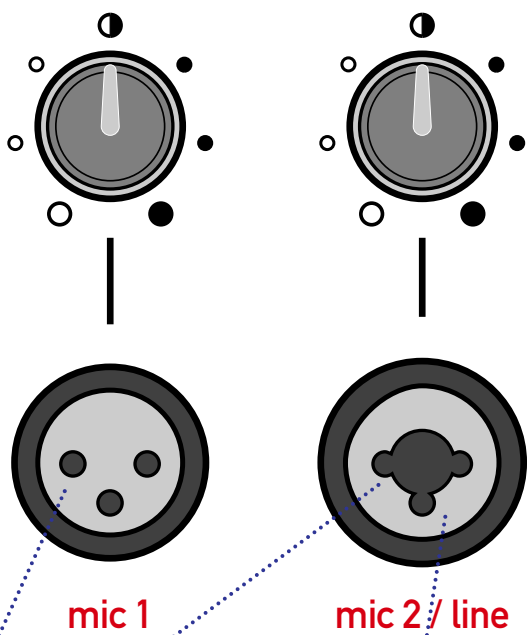
Charging the battery.

Turn the power switch off, then plug the cord into a standard AC outlet to charge the Freedom battery. The unit automatically begins charging, indicated by the yellow "charging" LED.

When the green "full" LED lights steady, the battery is 90% charged and may be used immediately or left plugged in another 1-2 hours to top-off the battery before use or storage.



Choosing Inputs and Outputs



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 (9 volts) for condenser type microphones.

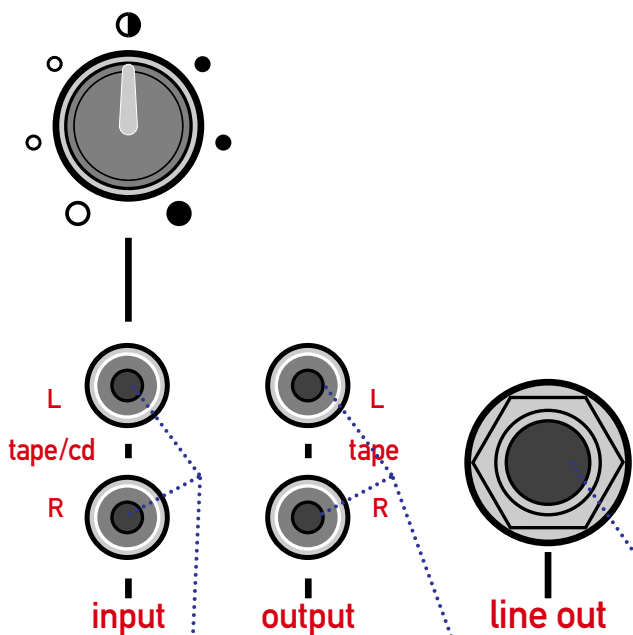
When using long mic cables, use a balanced microphone to help prevent hum and interference.

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

The line input is an unbalanced 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 the line input of the other.



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

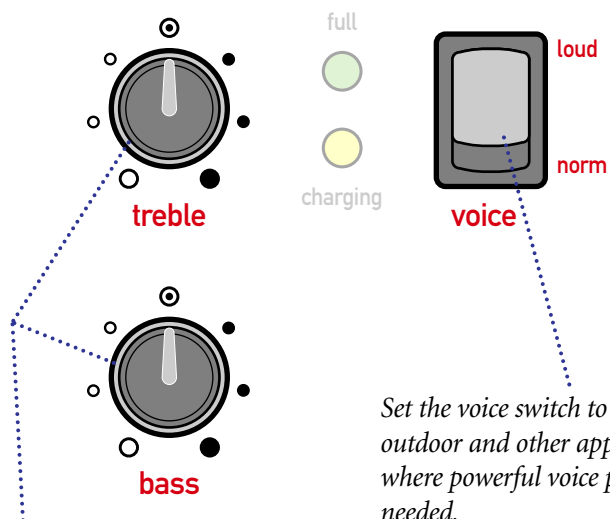
Connect the RCA outputs to a tape player's input to record the sound system.

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

Connect line output to the line input of another Freedom to daisy-chain the systems together.

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

Setting Tone Controls



Use the treble and bass 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 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).

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.

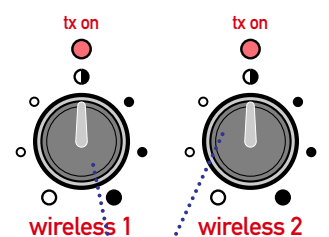
Wireless Mic Operation

Operating the optional Wireless System.

Fully raise the antenna vertically for the wireless system in use (extend both antennas when operating both mics of a dual-wireless unit).

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

note: Wireless transmitters (microphone or belt-pack) typically typically have a power on and a mute switch, both of which must be on for the microphone to operate. See the wireless microphone insert page describing the features of your wireless microphone.

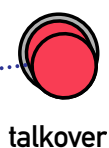


These knobs control the volume level of the optional built-in wireless microphone system(s).

The knobs control the volume of the wireless mic in use (system one or two); the red LED above each knob indicates RF transmission is being received.

Using the Talkover Feature

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.)

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.