# ELECRAFT® SP4 Speaker

## OWNER'S MANUAL

## Introduction

The SP4 is a high-quality, front-facing speaker that complements Elecraft's K4 both aesthetically and functionally. It can be used with any receiver capable of driving a 4-ohm load. The speaker is passive (non-amplified), minimizing susceptibility to RFI in the presence of a transmitted signal. The SP4's custom-built, wide-range driver has excellent sensitivity and deep bass response.

The A/B switch on the front panel of the SP4 can be used to select one of two mono sources. Further, when used in conjunction with a second SP4 this switch can be used to select one of two *stereo* sources. The Elecraft K4 transceiver takes full advantage of this feature, since it provides a rich binaural audio effect (AFX), as well as user-adjustable left/right balance between main and sub receiver audio.

Rear-panel input jacks accept either mono or stereo cables, simplifying station wiring. An output jack is provided for connection to a second SP4. When two SP4s are used, the A/B switch on the first unit controls source selection for both.

## Specifications

**Dimensions**

The tilt stand height matches the Elecraft K4 transceiver and the KPA1500 Amplifier.

Allow an additional 2" (5 cm) space behind unit for rear panel connectors.

**Weight:** 5 lb, 6 oz (2.5 kg)

**Speaker Size:** 3" x 5" (77 x 127 mm)

**Speaker Impedance:** 4 ohms

**Magnet Type:** Neodymium

**Power Handling Capability:** 15 W

**Frequency Response:** 100-20,000 Hz

**Sensitivity:** 90 dB SPL

# Setup

One cable is provided with your SP4 to connect it to a K4 transceiver as described under *Monaural Setup with One SP4* below. The SP4 connectors accept standard two-circuit (stereo) audio cables with 3.5 mm male connectors.

## Monaural Setup with One SP4

- Connect the SPKRS jack on the K4 rear panel to either the **INPUT A** or **INPUT B** jack on the **SP4** using the stereo cable provided.

- If you have a second K4, use a second stereo cable to connect it to the remaining input at the SP4.

- Press the front panel switch in to select the audio at **INPUT B** or press and release it until the button is out to select audio at **INPUT A**.

- If you want to listen to both the SP4 and headphones at the same time, be sure your K4 Menu is set to *Speakers + Phones* **YES** and *Speakers, External* **1**. This will allow you to use stereo headphones for AFX (audio effects) and dual receive (if your K4 is equipped with the optional sub receiver).

- Your speaker audio will continue to be monaural. You can add a second SP4 as described below to obtain full stereo output.

## Stereo Setup with Two SP4 Speakers

- Connect the main SP4 (left audio) to your K4 as described under *Monaural Setup with One SP4* above.

- On the main SP4, plug an audio cable into the OUTPUT to 2nd SP4 jack. We recommend you use the stereo cable supplied with the SP4 although a monaural cable will work.

- Plug the other end into INPUT A or INPUT B on the second SP4.

- Set the front panel pushbutton switch on the 2nd SP4 to match the input connection you selected.

- Be sure your K4 Menu is set to *Speakers, External* **2**. This will allow you to hear the full stereo effect of AFX (audio effects) and dual receive (if your K4 is equipped with the optional sub receiver).

- ⚠ You can connect another K4 to the unused input of the second SP4 for monaural listening. Only audio from the main SP4 can be passed to the second SP4 for stereo listening.

# Customer Service and Support

### *Technical Assistance*

You can send e-mail to support@elecraft.com and we will respond quickly - typically the same day Monday through Friday. Telephone assistance is available from 9 A.M. to 5 P.M. Pacific time (weekdays only) at 831-763-4211. Please use e-mail rather than calling when possible since this gives us a written record of the details of your problem and allows us to handle a larger number of requests each day.

### *Repair / Alignment Service (We want to make sure everyone succeeds!)*
If necessary, you may return your Elecraft product to us for repair or alignment. (Note: We offer unlimited email and phone support to get your kit running, so please try that route first as we can usually help you find the problem quickly.)

**IMPORTANT: You must contact Elecraft before mailing your product** to obtain authorization for the return, what address to ship it to and current information on repair fees and turnaround times. (Frequently we can determine the cause of your problem and save you the trouble of shipping it back to us.) *Packages shipped to us without authorization will incur delays as we sort out the reason you returned your product.*

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## Elecraft's 1-Year Limited Warranty

This warranty is effective as of the date of first consumer purchase (or if shipped from factory, date product is shipped to customer). It covers both our kits and fully assembled products. For kits, before requesting warranty service, you should fully complete the assembly, carefully following all instructions in the manual.

**Who is covered:** This warranty covers the original owner of the Elecraft product as disclosed to Elecraft at the time of order.  Elecraft products transferred by the purchaser to a third party, either by sale, gift or other method, who is not disclosed to Elecraft at the time of original order, are not covered by this warranty. If the Elecraft product is being bought indirectly for a third party, the third party's name and address must be provided to Elecraft at time of order to insure warranty coverage.

**What is covered:** During the first year after date of purchase, Elecraft will replace defective or missing parts free of charge (post-paid). We will also correct any malfunction to kits or assembled units caused by defective parts and materials. Purchaser pays inbound shipping to Elecraft for warranty repair, Elecraft will pay shipping to return the repaired equipment to you by UPS ground service or equivalent to the continental USA and Canada. Alaska, Hawaii and outside U.S. and Canada actual return shipping cost paid by owner.

**What is not covered:** This warranty does not cover correction of kit assembly errors. It also does not cover misalignment; repair of damage caused by misuse, negligence, or builder modifications; or any performance malfunctions involving non-Elecraft accessory equipment. The use of acid-core solder, water-soluble flux solder, or any corrosive or conductive flux or solvent will void this warranty in its entirety. Also not covered is reimbursement for loss of use, inconvenience, customer assembly or alignment time, or cost of unauthorized service.

**Limitation of incidental or consequential damages:** This warranty does not extend to non-Elecraft equipment or components used in conjunction with our products. Any such repair or replacement is the responsibility of the customer. Elecraft will not be liable for any special, indirect, incidental or consequential damages, including but not limited to any loss of business or profits.