

***FISHMAN***<sup>®</sup>

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USER GUIDE  
SA EXPAND

[fishman.com](http://fishman.com)

# Welcome

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Thank you for choosing Fishman. We are proud to offer you professional-grade amplification products and accessories that will empower you to sound your very best.

Please read through this User Guide to familiarize yourself with the operation of your SA Expand. Additional information and support can be found at [www.fishman.com](http://www.fishman.com)

**EU Declaration of Conformity CE:** Hereby, Fishman declares that this SA Expand is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU, 2014/35/EU. The Declaration of Conformity can be found at [www.fishman.com/support](http://www.fishman.com/support).

## Making Connections

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**Connect** – Use the included Cat5 cable to connect the SA Expand to an SA330x or the Accessory port of another compatible Fishman amplifier. Power and audio for the SA Expand are supplied through this single cable, reducing setup time and clutter.

**Plug In** – The combination inputs on the rear of the SA Expand will accept either a standard 1/4" or XLR shielded audio cable.

Connect an MP3 player, projector, CD player, or other line level audio source to the 1/8" Aux input on the rear of the SA Expand.

Note that the SA Expand has four input channels plus the Aux input, for a total of 5 source inputs.

# Front Panel Controls

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**Note:** The Controls described below are identical for all four input channels.

**Gain** – Use the Gain knob to set the level of the signal.

**Bass** – A boost (clockwise rotation) here will add depth and weight to the sound of an instrument, microphone or recorded material with light bass response. Rotating the Bass knob counter-clockwise will cut the bass response a few dB to “tighten up” the sound.

**Middle** – This control affects how well your source signal blends in or stands out in the mix. Slightly boosting the Middle control is useful for ensuring that vocals or speech are clear and intelligible. At loud volumes a midrange cut will achieve a more natural sound. With the knob set at 12 o’clock, the control is effectively out of the circuit.

## Front Panel Controls (cont'd)

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**Treble** – A boost here will help your sound to “cut through” a group of musicians, ambient sound in a room or hall, or other environments. Conversely, cutting the Treble will mellow and subdue your amplified tone.

**Phase** – With microphones or acoustic instruments, use the Phase switch to improve low frequency response at low volumes or to reduce feedback when performing at high volumes, without having to change the Bass, Middle or Treble settings.

**Reverb** – Controls the amount of the effect in the channel.

**12dB Pad & Clip LED** – When you have a high output source and the Clip LED (located in the center of the Pad button) comes on at low Gain settings, push this switch in to put your source level into a more useable range.

## Back Panel

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**Inputs 1 thru 4** – All four inputs are identical. Plug in an instrument here with a standard 1/4" instrument or XLR shielded audio cable.

Note: If you are using the SA Expand with a passive undersaddle guitar pickup (no battery onboard), use as short a cable as possible to minimize the loading effect of the cable.

**Aux Input** – Connect a line level, stereo audio source such as a projector, CD or MP3 player to this input. It is a "stereo" (TRS) input, however, the left and right signals will be mixed to mono. There is no individual level control for this input; use your device's Volume control to adjust its level in the mix.

**Phantom Power** – Provides 48V to the XLR preamp in each channel for use with a condenser microphone.

**Accessory Port** – Connect to a compatible Fishman amplifier such as the SA330x.



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