



Electro-Voice

ZXA1-Sub Overview



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Introduction

Punches Above Its Weight

In the beginning of 2012, Electro-Voice launched the much-anticipated addition to its best-selling ZXA1 line of compact self-powered loudspeakers - The ZXA1-Sub 12-inch subwoofer.

The ZXA1-Sub is designed to provide the ultimate combination of portability, performance, and power in a lightweight, stylish, small-format package. Equipped with a heavy-duty EV-engineered woofer, a state-of-the-art 700-W amplifier, a durable 15-mm wood enclosure, and a maximum SPL rating of 126 dB, the ZXA1-Sub weighs-in at just 46 lbs and sports a trim 15.75" x 17.5" x 18" profile.

Add easy-to-use controls and connectivity to the equation and a ZXA1-Sub makes enhancing a compact sound system with professional-quality low-end easier than ever.

Document Objectives

This document:

- Describes the key features of the ZXA1 loudspeaker
- Describes the key features of the ZXA1-Sub
- Explains the benefits of using the ZXA1 and ZXA1-Sub
- Identifies set-up options for the ZXA1 and ZXA1-Sub



ZXA Series

Small-format Never Sounded Better

The engineers at Electro-Voice first brought you the ZXA1 – a self-powered, compact, two-way loudspeaker. With an 800-watt amplifier built in, it revolutionized the portable audio system.

Now they've gone a step further, extending the ZXA1's size-defying performance to the ZXA1-Sub.

Continuing to offer the best performance-to-weight ratio in portable sound, the ZXA1-Sub packs a self-powered punch into a low-profile wood enclosure. It has a built-in 700-watt amplifier, and still weighs in at an easy-to-carry 46 pounds.

ZXA1

8-inch Self-Powered Two-Way Loudspeaker

- 800-watt built-in amplifier
- 19 lbs

ZXA1-Sub

12-inch Self-Powered Subwoofer

- Low-profile wood enclosure
- 700-watt built-in amplifier
- 46 lbs



ZXA1

To Appreciate the full power of the ZXA1-Sub, you first need to understand the features and benefits of the ZXA1.

Launched in 2010, the ZXA1 is a compact, amplified loudspeaker system offering an incredibly versatile solution for mobile and small-venue sound reinforcement.

The size is deceiving, but don't let it fool you.

The ZXA1:

- Has a powerful 800-watt amplifier built right in.
 - Instead of carrying a speaker and an amp into a venue, you've got it all in one small box.
- Weighs only 19 pounds.
 - You can easily grab two, carrying one in each hand.

Small size and high-quality sound make this loudspeaker the perfect solution for club DJs, small concerts, or a fixed location like a House of Worship or performance venue.



ZXA1 Features

The ZXA1 features an intuitive design for quick and easy set-up.

Weighing only 19 pounds, the enclosure is made from high-impact polystyrene, making it durable and light weight, and it has a full grill on the front, providing a clean, professional look.

It also features a built-in monitor angle for floor monitor applications or use in a venue with installed sound.

The hidden handle on the back makes it easy to carry two speakers at a time, while maintaining a clean look up on a speaker pole, and the rubber feet allow it to safely sit on a stage lip or on top of a sub stack.

Check out the back of the ZXA1 and you'll find a built-in mixer. You can hook up a microphone, guitar processor output, or any other line level device, and the mic and line inputs each have their own individual gain controls. The speaker also includes a selectable high-pass filter for use with a subwoofer.



Features

8-inch Self-Powered Two-Way Loudspeaker

- 800-watt built-in amplifier

Durable, portable design for quick and easy set-up

- 19 lbs
- Lightweight, durable enclosure
- Full grill on the front
- Built-in monitor angle
- Hidden handle on back
- Pole mount
- Rubber feet

Built-in mixer for easy hook-up

- Line and mic inputs with individual gain controls
- Selectable high-pass filter



ZXA1-Sub

Extending the ZXA1's size-defying performance and sleek styling into the low-end realm, Electro-Voice introduced the ZXA1-Sub in the beginning of 2012.

The ZXA1-Sub is a compact, amplified subwoofer.

It makes set-up of a high quality sound system quick and easy, with a minimum amount of cables and external electronics.

Highlights

- Lightweight 700-W Class-D amplifier: 126-dB maximum SPL
- 12-inch high-output woofer
- Dual XLR stereo inputs and outputs
- DSP with low-end boost and polarity control
- Pole mount for full-range systems
- 9-ply / 15mm internally braced wood enclosure with textured paint
- 46 pounds, with handle for easy carrying



ZXA1-Sub

ZXA1-Sub Features

The ZXA1-Sub is packed with features.

Low-end boost switch

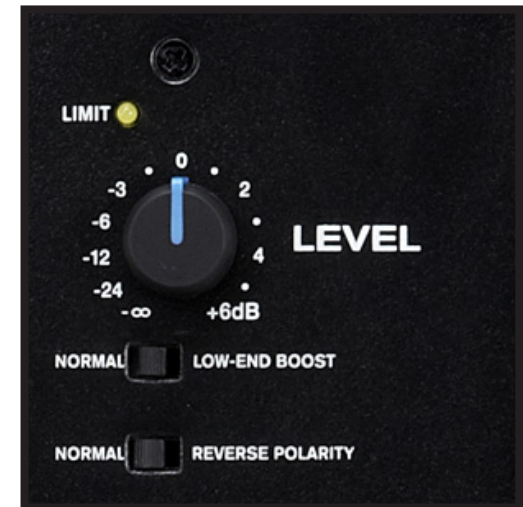
- Supplies a boost at 60 Hz
- Provides not just more bass, but deeper base.

Polarity switch

- Provides a greater compatibility with other manufacturer's top boxes.

IEC 60320 C14 jack for power

- Commonly known as an IEC jack, it is used on computer and pro audio sound equipment.



Dual inputs and outputs

- Easy cable management
- Mono sub configuration

The typical stereo setup with two top boxes and two subs will require four XLR cables to connect the entire system to the XLR output of a mixer. If you have unbalanced RCA or quarter inch outputs, you can purchase cables that will adapt it to the XLR input on the amp module.

A stereo setup with two boxes and one sub will also require four XLR cables. In that case, you will run both the left and right channel to the two inputs on a single sub, and then out of the link outputs to the top boxes.

The enclosure is made of wood for:

- management and enhancement of the low frequencies.
- durability.

Pole mounts and solid, easy-to-grip handles on each side make it ideal for many portable applications



ZXA1 + ZXA1-Sub

The Perfect Combination

Now that you know the key features of the ZXA1 and ZXA1-Sub, you can see how the Sub is the perfect match for the main speaker.

- The twelve-inch driver in the Sub complements the ZXA1 8-inch woofer and the 1.25 diameter compression driver to make a system that is perfectly voiced for smooth frequency response.

For most music, one ZXA1-Sub and one ZXA1 top, per side, will be sufficient.

For music with heavy bass, like Dance and Rap, two subs per top box is a great match-up.

Easy Set-up

Set-up of the pair has been made extremely easy via XLR connections into and out of each speaker, allowing for a wide variety of easy to use configurations.

- Since the ZXA1-Sub amplifier plate has an A and B input and output, you can use a single sub to drive two top boxes, and the sub will pick up the low frequencies from both channels.



Specifications

Light Weight

ZXA1: 19 lbs

ZXA1-Sub: 46 lbs

Sounds Great

Freq. Response

ZXA1

60Hz - 20kHz

ZXA1-Sub

50Hz - 115Hz

Freq. Range

48Hz - 20kHz

42Hz - 155Hz

Max Measured SPL

126dB

126dB

Power Rating

800 watts

700 watts

Let's break down what these specifications mean.

Frequency Response is given as the range of frequencies between the points at the upper and lower ends of the sounds spectrum, where the speaker response is 3 dB below the nominal output level. This indicates that the system is starting to have a reduced output below this frequency.

Frequency Range is given as the range of frequencies between the points at the upper and lower ends of the sound spectrum, where the speaker response is 10 dB below the nominal output level. This is commonly referred to as the lower and upper limit of the system's usable output. Anything below or above this frequency range should not be expected to be reproduced from the system.

It is important to note that the ZXA1 max measured Sound Pressure Level, or SPL, was done in Full-Space, which means it wasn't near a reflective barrier, like the floor or wall. The ZXA1-Sub max measured SPL was done in Half-Space, which means it was near a reflective barrier, like the floor, because that is how it will be used. Half-Space measurements increase the output at lower frequencies, such as the Subs will be producing.

The Power Rating is the peak output of the amplifier module for a short burst. This type of rating is common among the products that these speakers are designed to compete with, so that comparison can be made.

Wrap-up

So, why go with the ZXA1 and ZXA1-Sub?

They offer big sound in a small enclosure.

The ultra compact top and sub system are durable and easy to transport.

Built-in amplifiers offer:

- ease of use
- portability
- minimized out-board equipment

And, of course, Electro-Voice is a brand that is known, trusted, and proven on the road. With the ZXA1 and ZXA1-Sub, small-format never sounded better.

