

Electro-Voice X1212/90 Compact 12 inch 90deg Vertical Line-Array Loudspeaker System

The X1-212/90 from Electro-Voice is a two-way vertical line array loudspeaker can be used in a wide variety of applications where wide bandwidth, vertical and horizontal directivity control, and high efficiency are required in a compact cost-effective package. For high frequencies, the X1-212/90 utilizes two (2) ND2R high-output 2-inch titanium compression drivers directly coupled to a pair of WCH Plane Wave Generators on a 90° waveguide optimized for uniform pattern control and smooth, linear response. For low frequencies, the SMX2121 12-inch woofer was developed using FEA optimization for motor, suspension, and electrical design to provide low distortion, high efficiency, and maximum intelligibility at high SPL. The woofer is coupled to an MBH effectively emulates the acoustic behavior of a double line of four (4) 3-inch point sources to deliver superior mid-band coupling while maintaining the efficiency, power, and bandwidth of a 12-inch transducer. The passive crossover employs a steep, eighth order topology resulting in acoustic crossover slopes through the critical crossover region in excess of 80- dB per octave for linear summation and smooth offaxis response with passive equalization for improved definition over the critical vocal range regardless of array size.

The X1-212/90 is an ideal cost effective solution for many live sound reinforcement and fixed-install applications. The vertical trapezoidal enclosure is constructed of weather-resistant birch and coated with EVCoat for enhanced durability. The enclosure features the IRS, a captive twist-lock multi-angle arraying system designed by Electro-Voice to significantly reduce load-in/load-out time of any size array. IRS has been engineered with the flexibility to deploy a system using the two (2) most common methods of array set-up:

- Compression method by using a pull-up kit (Sold separately).
- Fixed angles locked by using secondary rigging pins (Included).

X1-212/90 with IRS rigging is rated for use for up to 24 elements for normal arrays. LAPS 3 or higher (Line Array Prediction Software) accurately provides fast array configuration for coverage results, rigging details, and allowed rigging configurations. It also provides information for the creation of steered/ shaped subwoofer arrays.

The input panel provides dual Neutrik NL8 connectors for fast connectivity between loudspeakers. Passive/Bi-amp operation is selected via an internal connector.

The advanced acoustic and mechanical designs of X1 series loudspeakers, combined with LAPS 3, provide the tools and flexibility to easily design and deploy vertical line array systems.

Features:

- Mid-Band Hydra (MBH) Superior Box Coupling
- Wavefront-Shaping Circular Hydra (WCH) Extended Linear HF Performance
- Integrated Rigging System (IRS) Quick Setup