



DESCRIPTION

The AX2 Series is a versatile set of arrayable, MF/HF modules that can provide the "horsepower" for the high outputs required in larger venues. The AX2 Series include horn patterns from 45° x 45° to 90° x 60°. All AX enclosures, including the AX3 Series and companion AX122 subwoofer, have an identically sized, dual trapezoidal shape. This permits creating horizontally or vertically orientated arrays in a variety of beamwidths, with the AX's superior horizontal and vertical pattern symmetry maintaining the proper relationship between the polar patterns. A set of 3/8-16 threaded mounting points facilitate installation.

While the AX2s are designed for single-amp operating modes, the passive crossover is designed for and must be used with a digital signal processor (DSP). This reduces the crossover's complexity, minimizes power losses, and provides more sophisticated digital processing to maximize performance.

The AX2 Series features a newly-designed, coaxial transducer with high efficiency, MF cone and HF compression drivers. The drivers share a common, neodymium magnet allowing closely spaced voice coils. This minimizes the distance between the MF and HF acoustic origins for highly coherent sound both on and off axis. The MF's sealed, aluminum chassis acts as a heat sink for the entire assembly.

The MF/HF transducer loads into a large, common horn via a modified version of the EAW's patented Radial Phase Plug™. A unique HF waveguide is integrated within the center of the phase plug. It is acoustically transparent to the MF energy while being acoustically opaque to and acting as a waveguide for the HF energy.

To extend the low frequency response for full-range applications, the companion AX122 subwoofer is recommended with its response extended up to the MF/HF crossover point. With an identically-sized enclosures, AX122s array perfectly with AX2s.

Six year warranty.

2-WAY MF/HF COAXIAL LOUDSPEAKERS

CONFIGURATION

Subsystem		
	Transducer	Loading
MF	1x 8 in cone	Horn-loaded w/Radial Phase Plug™
HF	1x 1.4 in exit, 2.5 in voice coil compression driver	Horn-loaded w/Radial Phase Plug™

Operating Mode

	Amplifier Channels	External Signal Processing
Single-amp	MF/HF	DSP

PERFORMANCE ¹

Operating Range	275 Hz to 20 kHz				
Nominal Beamwidth (rotatable)	AX244	AX264	AX266	AX296	
	Horz	45°	60°	60°	90°
	Vert	45°	45°	60°	60°

Input Impedance (ohms)

Nominal	
MF/HF	8

High Pass Filter

High Pass	435 Hz, 12 dB/octave Butterworth
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Accelerated Life Test ²

MF/HF	49 V	300 W @ 8 ohm
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Calculated Axial Output Limit (whole space SPL)

	AX244	AX264	AX266	AX296
MF/HF Average	129 dB	129 dB	128 dB	126 dB

ORDERING DATA

Description	Part Number
AX244 2-Way Mid-High Loudspeaker Black	0014063
AX244 2-Way Mid-High Loudspeaker White	0014250
AX244 2-Way Mid-High Loudspeaker Black WP	0014254
AX264 2-Way Mid-High Loudspeaker Black	0014064
AX264 2-Way Mid-High Loudspeaker White	0014251
AX264 2-Way Mid-High Loudspeaker Black WP	0014255
AX266 2-Way Mid-High Loudspeaker Black	0014065
AX266 2-Way Mid-High Loudspeaker White	0014252
AX266 2-Way Mid-High Loudspeaker Black WP	0014256
AX296 2-Way Mid-High Loudspeaker Black	0014066
AX296 2-Way Mid-High Loudspeaker White	0014253
AX296 2-Way Mid-High Loudspeaker Black WP	0014257

Optional Accessories

Eyebolt/Forged Shoulder (3/8-16 x 1.25 in)	104001
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¹ To achieve specified performance, the listed external signal processing with EAW-provided settings is required.

² For recommendations to select power amplifier size refer to: "HOW MUCH AMPLIFIER POWER DO I NEED?" on the EAW web site.