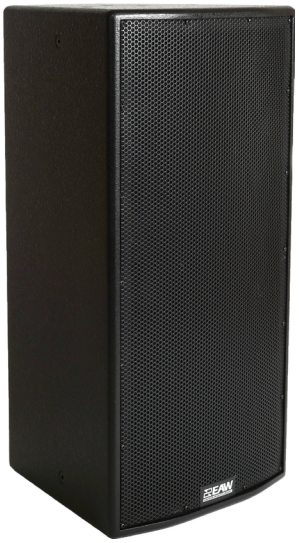
MK2300i Series

2-Way Full-Range Loudspeakers

MK2326i ▶ 120° x 60°
MK2364i ▶ 60° x 45°
MK2366i ▶ 60° x 60°
MK2394i ▶ 90° x 45°
MK2396i ▶ 90° x 60°
MK2399i ▶ 90° x 90°

- Optimized for installation
- Application flexibility with 3/8in mounting points
- Arrayable two-way
- User rotatable horns



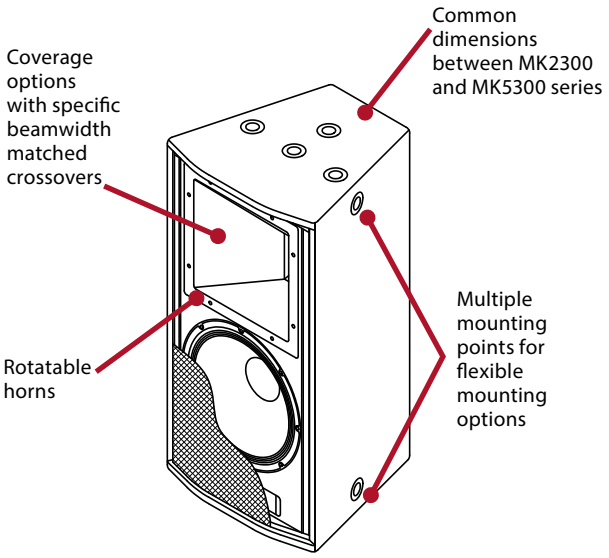
OVERVIEW

The MK2300i Series of 2-way, high output, trapezoidal loudspeaker systems are designed as main PA elements for smaller venues including small houses of worship and auditoriums/theaters, corporate AV systems, hotel ballrooms and meeting rooms. The series is also excellent for distributed or fill purposes in larger venues including large houses of worship and auditoriums/theaters, arenas, stadiums, nightclubs and themed-entertainment complexes.

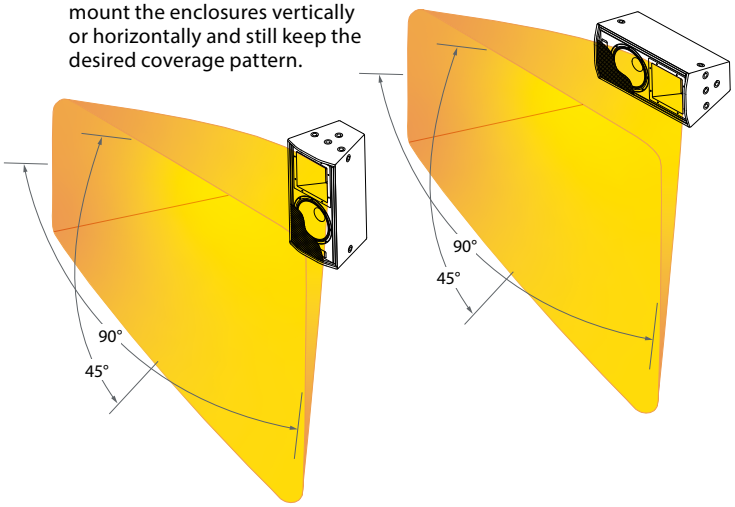
To meet the design goals for the intended applications, EAW engineers developed a new, high performance, 3in voice coil and 1.4in exit compression driver loading it with a selection of six different HF horns with coverage patterns ranging from 60° x 45° to 120° x 60°. The horns are as large as the enclosure size which allows it to maintain consistent directivity throughout the HF passband. A 3in voice coil, 12in LF driver was used to complement the sonic character and output of the HF driver. All MK2300i models are carefully voiced to sound similar permitting diverse horn patterns to be mixed throughout an installation while maintaining the same sonic quality. The result is clean, high-fidelity output at significantly higher levels than would be expected from loudspeakers of this size and price.

Users can select between single-amp and bi-amp (external processor) operating modes. In either operating mode, EAW's beamwidth-matching crossover/ filter design delivers even power response throughout the crossover region, eliminating the discontinuities that plague other two-way loudspeakers. The MK2300i Series systems are the smaller companions to the MK5300i Series systems. Enclosures for both series are the same height facilitating installation where more than one horn pattern and/or type of loudspeaker capability is needed.

INSIDE EAW TECHNOLOGIES



User rotatable horns let contractors mount the enclosures vertically or horizontally and still keep the desired coverage pattern.



One Main Street | Whitinsville, MA 01588 | Tel 800 992 5013 / 508 234 6158 | www.eaw.com

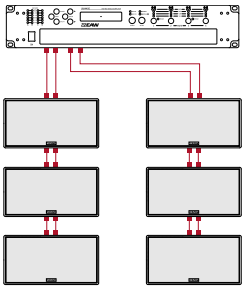
EAW EASTERN ACOUSTIC WORKS

RECOMMENDED AMPLIFIER CONFIGURATION

EAW strongly recommends utilizing the processing setting to take full advantage of your speakers. Pair with EAW UXA Amps for the best performance of EAW Technologies

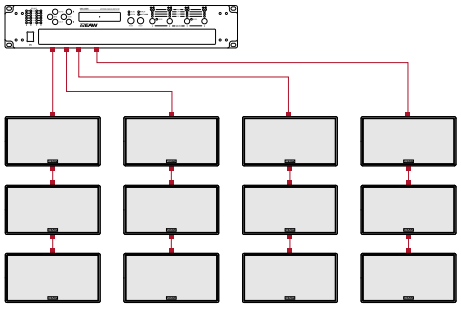
UXA4410

BI-AMP



MODEL	PER CHANNEL	PER AMPLIFIER
UXA4410	3	6

PASSIVE

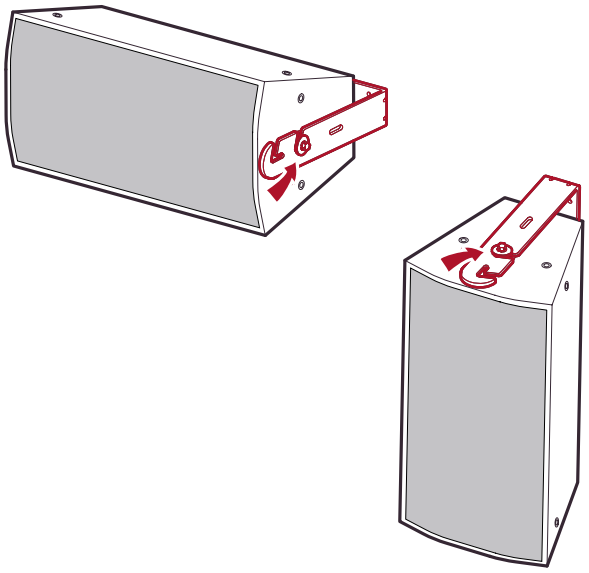


MODEL	PER CHANNEL	PER AMPLIFIER
UXA4410	3	12

RIGGING CONFIGURATION

MOUNTING HARDWARE & ACCESSORIES

DESCRIPTION	PART NUMBER
ACC Eye Bolt 0.375-16 X 1.25 in [ACC-EB3825]	**104001**
Black U-Bracket MK2(5)000 [UBKT2353]	**0007869**
White U-Bracket MK2(5)000 [UBKT2353]	**0015076**



Third-Party Compatible

BRAND	MODEL
Adaptve Tech	MM-60/MM-120

TECHNICAL SPECIFICATIONS

2-WAY FULL-RANGE LOUDSPEAKERS

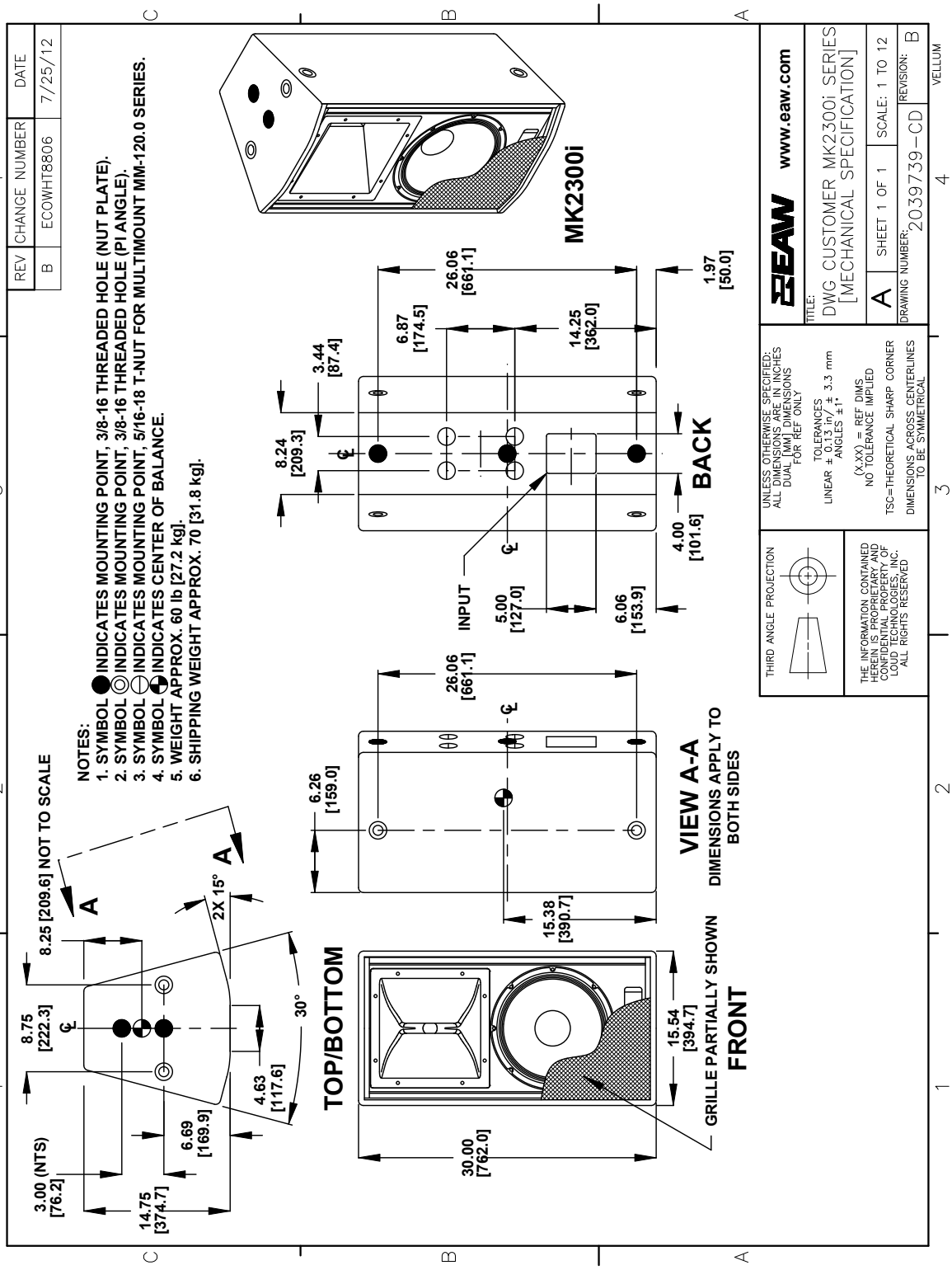
PERFORMANCE	MK2326i	MK2364i	MK2366i	MK2394i	MK2396i	MK2399i
Max SPL[1]	137dB	141dB	139dB	140dB	138dB	138dB
Operating Range[2]	65-18kHz	15-16kHz	65-17kHz	65-19kHz	65-20kHz	65-18kHz
Nominal Beamwidth[3] Horizontal x Vertical	120° x 60°	60° x 45°	60° x 60°	90° x 45°	90° x 60°	90° x 90°
Nominal Phase	±15° from ideal high-pass filter					
Input Impedance[4]	**LF/HF:** 8Ω **LF:** 8Ω **HF:** 8Ω					
Accelerated Life Test[5]						
LF/HF	69.3V			600W		
LF	69.3V			600W		
HF	34.6V			150W		
Axial Sensitivity[6]						
LF/HF	95dB			65 Hz to 18 kHz		
LF	97dB			65 Hz to 1350 Hz		
HF	100dB			1150 Hz to 18 kHz		
CONFIGURATION	**MK2326i**	**MK2364i**	**MK2366i**	**MK2394i**	**MK2396i**	**MK2399i**
LF Transducer, Loading	12in cone, vented					
HF Transducer, Loading	1.4in exit, 3in voice coil compression driver, horn-loaded					
Operating Modes	***Amplifier Channels***			***External Signal Processing***		
Single Amp	LF/HF			High Pass Filter		
Bi-Amp	LF, HF			DSP with EAW Focusing		
PHYSICAL	**MK2326i**	**MK2364i**	**MK2366i**	**MK2394i**	**MK2396i**	**MK2399i**
Material	Exterior grade Baltic birch plywood with wear-resistant textured black paint					
Physical/Rigging	8 x 3/8in-16 Mounting Points					
Dimensions (H×W×D)	30 x 15.5 x 14.75in (762 x 394 x 374mm)					
Net/Shipping Weight	60 lb (27.2 kg)/ 70 lb (31.8kg)					
Input Connector	6-Pin Terminal Strip In + Out					
ORDERING	**MK2326i**	**MK2364i**	**MK2366i**	**MK2394i**	**MK2396i**	**MK2399i**
Part Numbers:						
Black	2039726	2039722	2039505	2039723	2039724	2039725
White	2039727	2039728	2039729	2039730	2039731	2039732
Weather Protected (WP) Black	2039733	2039734	2039735	2039736	2039737	2039738
Weather Protected (WP) White	2049933-90	2070789-90	2070790-90	2070791-90	2048841-90	2042018-90
Custom Colors	Available upon request. Contact your EAW sales representative.					

1 Calculated max SPL at 1m with 4:1 (12dB) crest factor pink noise. Specified as whole space (free field) for full range loudspeakers, half space for subwoofers.
2 Operating Range: Range where the processed Frequency Response stays within -10 dB SPL of the power averaged SPL within this range; measured on the geometric axis. Narrow band dips are excepted.
3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.
4 Nominal Impedance: Selected 4, 8, or 16 ohm resistance such that the minimum impedance point is no more than 20% below this resistance over the Operating Range.
5.Accelerated Life Test: Maximum test input voltage applied with an EIA-426B defined spectrum; measured with recommended signal processing and Recommended Protection Filter.
6.Axial Sensitivity: Power averaged SPL over the Operating Range with an input voltage that would produce 1 W at the nominal impedance; measured with no external processing on the geometric axis, referenced to 1 m.

FOR PERFORMANCE GRAPHS, SEE ACOUSTICAL DATA DOCUMENT

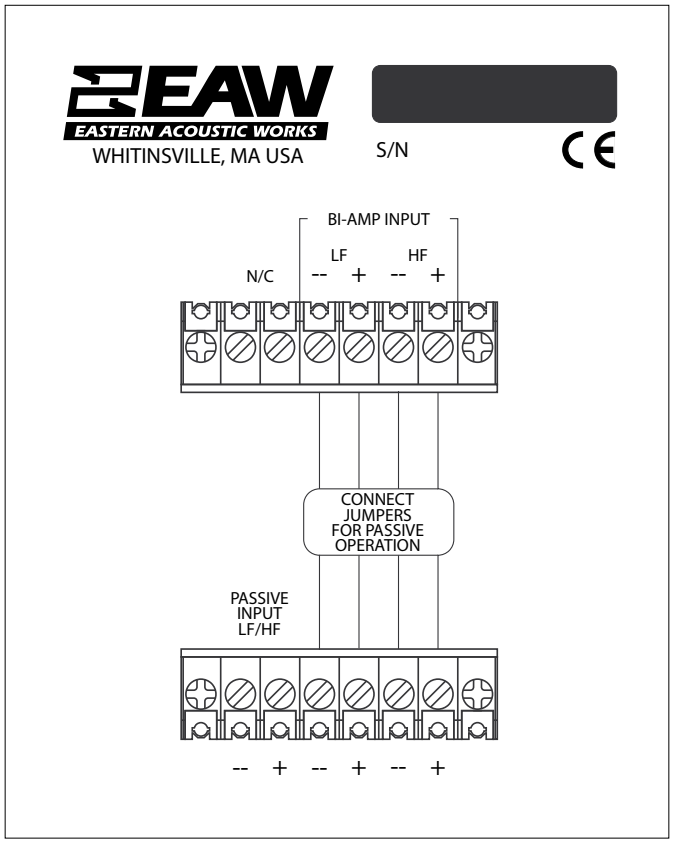
ENCLOSURE

Material Exterior-grade Baltic birch plywood
Finish Wear resistant textured black paint
Grille Powder-coated perforated steel

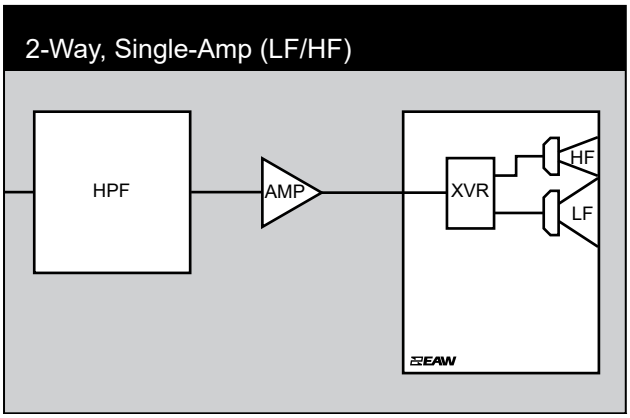


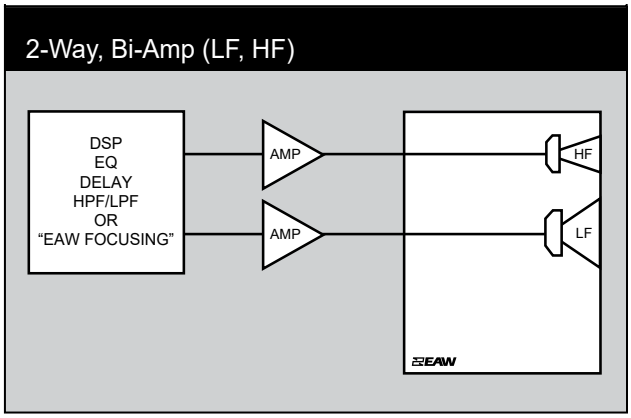
NOTE: This drawing has been reduced. Do not scale.

INPUT PANEL



SIGNAL DIAGRAM





Signal Diagram Abbreviations & Definitions

HPF	High Pass Filter for crossover or Recommended High Pass Filter
LPF	Low Pass Filter for crossover
LF/MF/HF	Low Frequency / Mid Frequency / High Frequency
AMP	User Supplied Power Amplifier –or– Integral Amplifier
XVR	Passive LPFs, HPFs, and EQ integral to the loudspeaker
EAW Focusing	Digital Signal Processor capable of implementing EAW Focusing