

# MKD1000 Series

## 2-Way Full-Range Loudspeakers

- ▶ High output passive or bi-amplified two-way performance
- ▶ QX inspired 4in voice coil compression driver with extended bandwidth
- ▶ Precision EAW signature broadband pattern control
- ▶ Flexible mounting, weather protection, color and transformer options

MKD1096  
▶ 90° x 60°

MKD1026  
▶ 120° x 60°

MKD1064  
▶ 60° x 45°



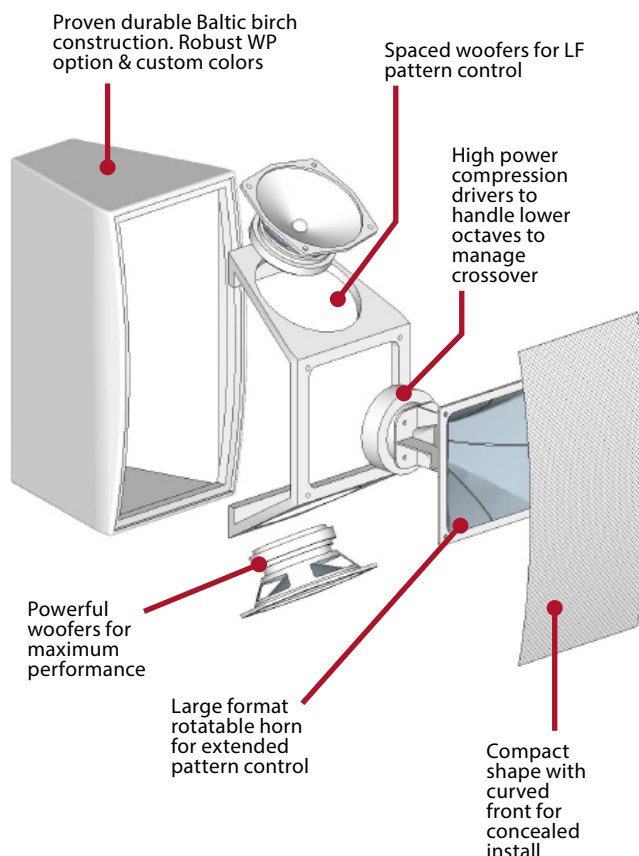
### OVERVIEW

The MKD installation loudspeaker series is engineered to deliver the high output, broadband pattern control and exceptional fidelity that is required by real-world applications from stadiums to intimate music clubs.

MKD builds on EAW's long standing tradition of exceptional installation focused loudspeakers developed in partnership with consultants and sound system integrators worldwide. The compact durable Baltic birch enclosure provides for easy installation with an array of M10 mounting points and optional wall-mount or ceiling-mount brackets. MKD also offers weather protection options, custom colors, and a gently curved front allow for concealed installations in the most visually sensitive environments.

MKD leverages the design tenets and core technologies deployed in our QX series by deploying a pair of spaced low frequency transducers centered around a large format rotatable horn. The acoustically advanced transducers are able to be driven an octave lower than standard drivers through the use of our beamwidth matched crossover technology.

### INSIDE EAW TECHNOLOGIES



## TECHNICAL SPECIFICATIONS

### 2-WAY FULL-RANGE LOUDSPEAKERS

PERFORMANCE	MKD1096	MKD1026	MKD1064
Max SPL <sup>1</sup> (12 dB Crest Factor)	142dB	141dB	144dB
Flat SPL <sup>1</sup> (6 dB Crest Factor)	136dB	135dB	138dB
Operating Range <sup>2</sup>	57Hz - 20kHz		
Nominal Beamwidth <sup>3</sup>	90° Horizontal x 60° Vertical	120° Horizontal x 60° Vertical	60° Horizontal x 45° Vertical
Nominal Phase	±15° from ideal high-pass filter		
Input Impedance	LF=8Ω   HF=8Ω   LF/HF=8Ω		
ACCELERATED LIFE TEST <sup>4</sup>			
LF/HF	89.4V	1000W @8ohms	
LF	74.8V	700W @8ohms	
HF	28.3V	100W @8ohms	
CONFIGURATION			
LF Transducer, Loading	2 x 10in Cone, 2.5in Voice Coil, Vented		
HF Transducer, Loading	1 x 1.4in Exit, 4in Neodymium Compression Driver, Horn Loaded		
Operating Modes	Passive, Bi-Amp		
PHYSICAL			
Physical/Rigging	12 x M10 Mounting Points		
Dimensions (H×W×D)	26.7 H x 14.6 W x 16.5in D (680 H x 370 W x 420mm D)		
Net Weight	60 lbs / 27.3 kg		
Shipping Weight	70 lbs / 31.8kg		
Mounting Accessories	U-Bracket, M10 Eyebolts		
Input Connector	Terminal block		
ORDERING	MKD1096	MKD1026	MKD1064
Part Numbers			
Black	2070470-90	2070483-90	2070484-90
White	2070510-90	2070511-90	2070512-90
WP (black only)	2070513-90	2070514-90	2070515-90
Accessories			
M10 Eyebolt Kit	0028272 [PA-A2 EYEBOLT KIT (4 PER)]		
U-Bracket Kit	2071003		

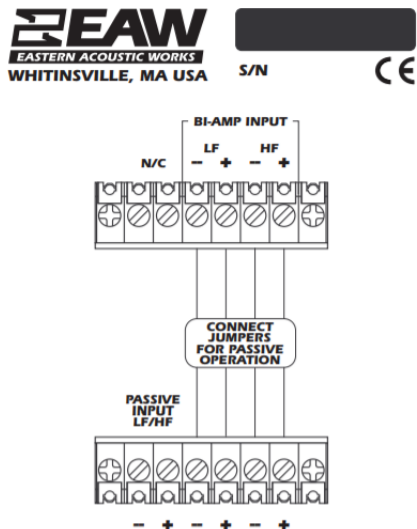
1 Calculated max SPL at 1m with 4:1 pink noise. Specified as whole space (free field) for full range loudspeakers, half space for subwoofers.

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.

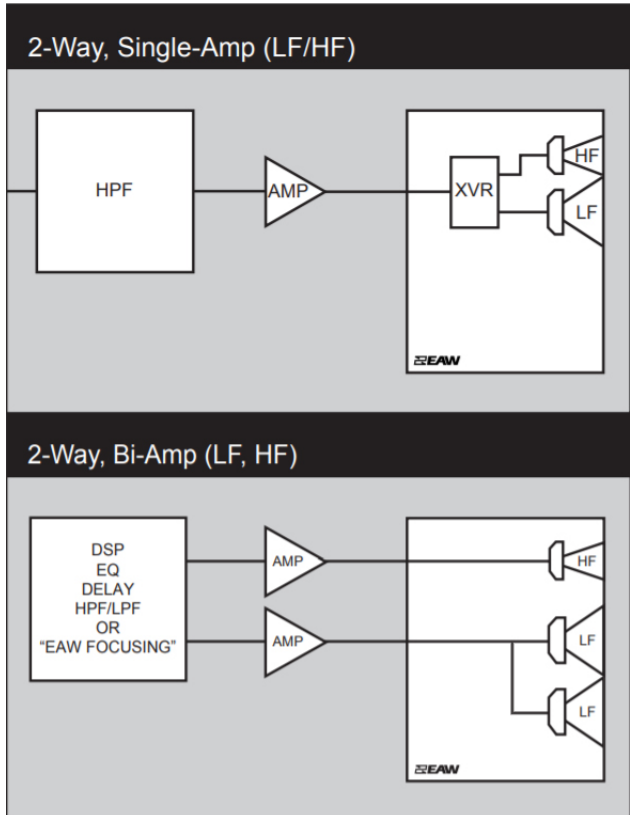
3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.

4 Accelerated Life Test: Maximum test input voltage applied with an EIA-426B defined spectrum; measured with recommended signal processing and Recommended Protection Filter.

## INPUT PANEL



## SIGNAL DIAGRAM

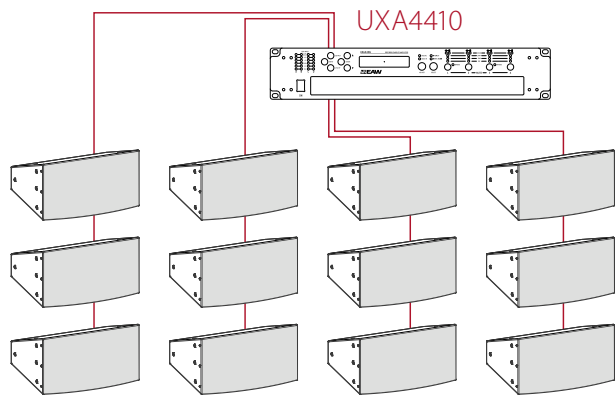


## LEGEND

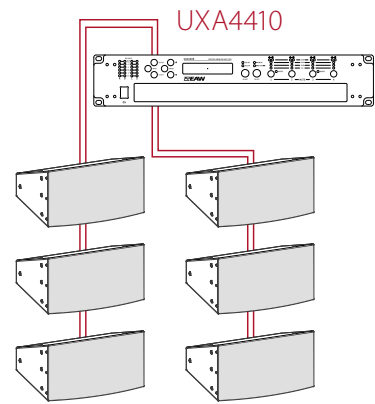
- HPF:** High Pass Filter for crossover –or– Recommended High Pass Filter.  
**LPF:** Low Pass Filter for crossover.  
**LF/MF/HF:** Low Frequency / Mid Frequency / High Frequency.  
**AMP:** User Supplied Power Amplifier –or– Integral Amplifier for NT products.  
**XVR:** Passive LPFs, HPFs, and EQ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

RECOMMENDED AMPLIFIER CONFIGURATION

PASSIVE



BI-AMP



MODEL	PER CHANNEL	PER AMPLIFIER
UXA4810	1	8
UXA4406	2	8
UXA4410	3	12

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

Third-Party DSP Support  
▶ BSS Powersoft  
▶ QSYS

RIGGING CONFIGURATION

Numerous M10 points for flexible mounting



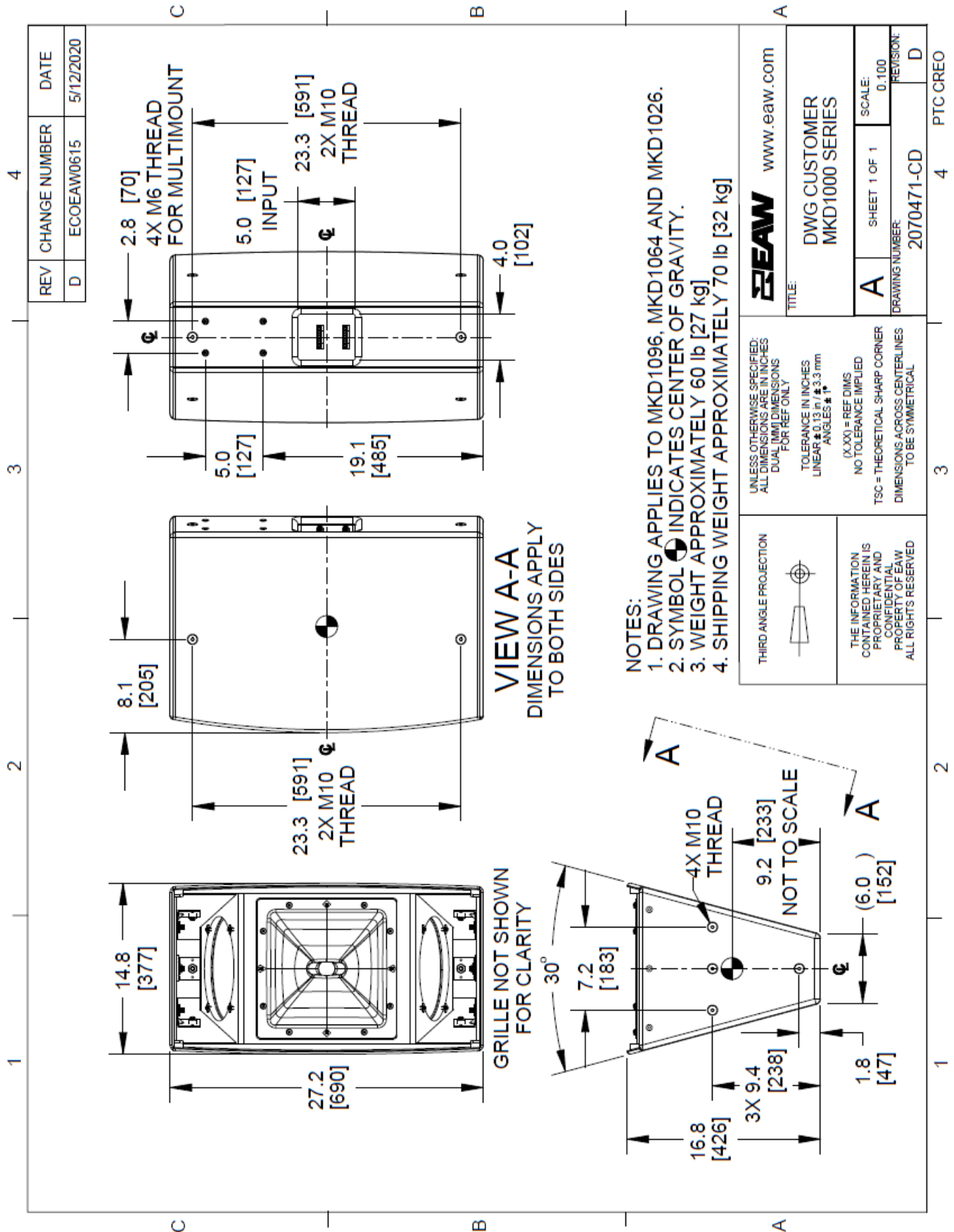
MOUNTING HARDWARE

EAW

DESCRIPTION	PART NUMBER
M10 Eyebolt Kit	0028272 [PA-A2 EYEBOLT KIT (4 PER)]
U-Bracket Kit	2071003

Third-Party Compatible

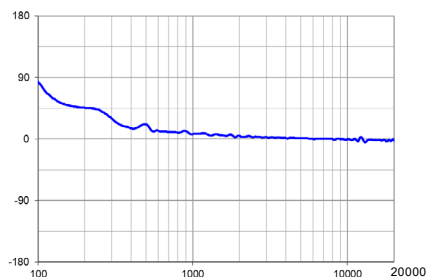
BRAND	MODEL
Adaptive Technologies	MM-120
Polar Focus	QX Mounting System



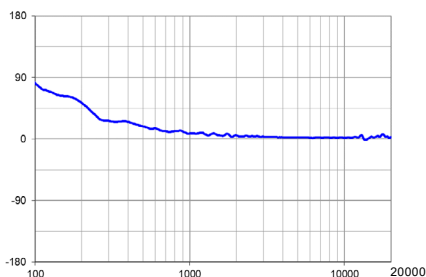
## PERFORMANCE GRAPHS

### Phase Linearity

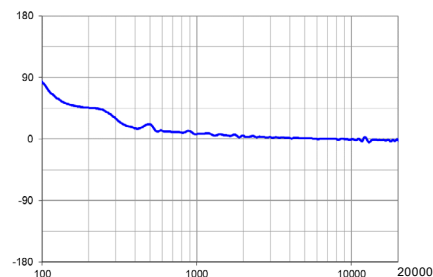
MKD1096



MKD1026

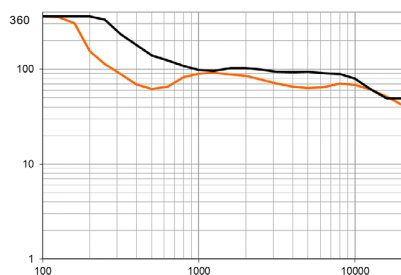


MKD1064

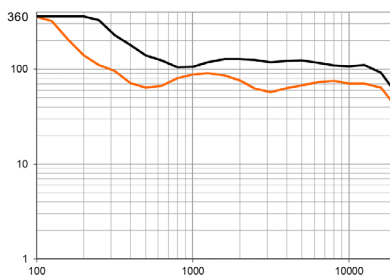


### Beamwidth<sup>1</sup> ■=Vertical ■=Horizontal

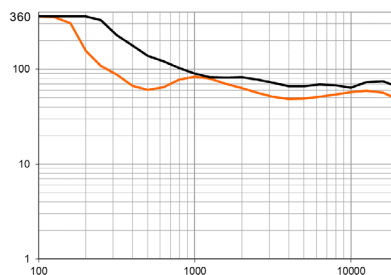
MKD1096



MKD1026

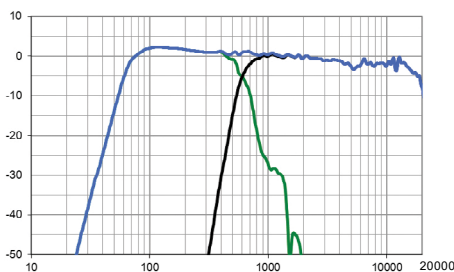


MKD1064

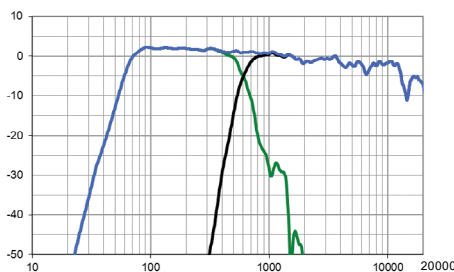


### Frequency Response<sup>2</sup> ■=LF Processed ■=HF Processed ■=Overall Processed

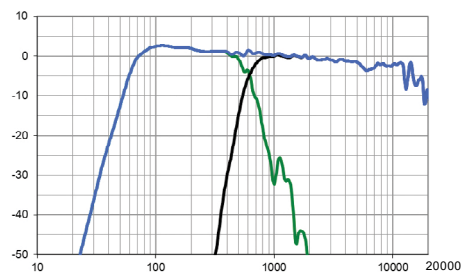
MKD1096



MKD1026



MKD1064



1 Average angle for each 1/3 octave frequency band where, starting from the rear of the loudspeaker, the output first reaches -6 dB SPL referenced to 0 dB SPL as the highest level. This method means the output may drop below -6 dB SPL within the beamwidth angle.

2 Variation in acoustic output level with frequency for a constant input signal. Processed: normalized to 0 dB SPL. Unprocessed inputs: 2 V (4 ohm nominal impedance), 2.83 V (8ohm nominal impedance), or 4 V (16 ohm nominal impedance) referenced to a distance of 1 m.



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