

# MKC60

## 2-Way Coaxial Loudspeaker

- ▶ Highly Versatile, compact coaxial loudspeaker
- ▶ 1 in Dome tweeter provides superior dispersion, fidelity and output
- ▶ Versatile accessory solutions for wall, ceiling or pole mount applications
- ▶ Weather protection and transformer options

### OVERVIEW

The MKC series represents a major evolution of coaxial loudspeakers. Available as standard in black or white, the MKC series offers a full-suite of driver sizes allowing the series to span a powerful index of installation applications and configurations. The enclosures can be deployed in either horizontal or vertical orientations through the use of a pan & tilt wall bracket. Other deployment options include a ceiling bracket and mic stand mount.

With an innovative new port design and top of the line 1 in dome tweeter, MKC60 offers pristine audio output, similar to that of a professional studio monitor.



### TECHNOLOGIES



**Beamwidth Matched Crossovers** Introduced over a decade ago for our MK series loudspeakers, EAW Engineers use carefully-designed HF horns and crossovers to eliminate polar irregularities through the crossover point.



**Focusing™** Use of advanced digital signal processing to perfect the impulse response of a loudspeaker in the time domain. Eliminating horn "honk" and splashiness, this makes the loudspeaker sound like a studio monitor instead of a "PA" speaker.



**DynO™** Dynamic Optimization actively tracks input spectrum and power delivery, continually wicking maximizing output and fidelity at any drive level.



**Symmetry of Sources™** Symmetrical arrangement of acoustic sources along a common axis for utmost consistency throughout the coverage pattern.

## TECHNICAL SPECIFICATIONS

### 2-WAY COAXIAL LOUDSPEAKER

PERFORMANCE	
<b>Max SPL<sup>1</sup></b> (12 dB Crest Factor)	125dB
<b>Max SPL<sup>1</sup></b> (6 dB Crest Factor)	119dB
<b>Operating Range<sup>2</sup></b>	70Hz-20kHz
<b>Nominal Beamwidth<sup>3</sup></b>	110 degrees conical
<b>Axial Sensativity</b>	89dB, 70Hz-20kHz
<b>Calculated Axial Output</b>	113dB average, 125dB peak
<b>Nominal Phase</b>	±15° from ideal high-pass filter
<b>Input Impedance</b>	8 ohms nominal, 6.1 ohms @ 250Hz minimum
<b>Recommended HPF</b>	70Hz 12dB/oct
ACCELERATED LIFE TEST <sup>4</sup>	
<b>LF/HF</b>	250W @ 8ohms
CONFIGURATION	
<b>LF Transducer, Loading</b>	1x6.5in cone, 1.5in VC, Vented
<b>HF Transducer, Loading</b>	1x1in dome tweeter, coaxial
<b>Operating Modes</b>	Single-Amp (LF/HF, DSP w/ EAW Focusing & DynO)
PHYSICAL	
<b>Physical Rigging</b>	3x pairs of M6 threaded points for pole or microphone stand mount adapters 4x M5 threaded pattern for wall or ceiling mount bracket
<b>Dimensions (HxWxD)</b>	12.8 x 8.2 x 8.1in (324 x 208 x 206mm)
<b>Net Weight</b>	10.8 lbs (4.9 kg)
<b>Shipping Weight</b>	Approx. 26 lbs. (11.8 kg) [Sold/Shipped in Pairs]
<b>Mounting Accessories</b>	Pan/Tilt Bracket (included in box) 5:1 Design factor Metal wall mount Pan/Tilt bracket Ceiling mount bracket (uses included pan/tilt bracket)
<b>Input Connector</b>	1x Nuetrik NL4, 2-pin barrier strip

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.

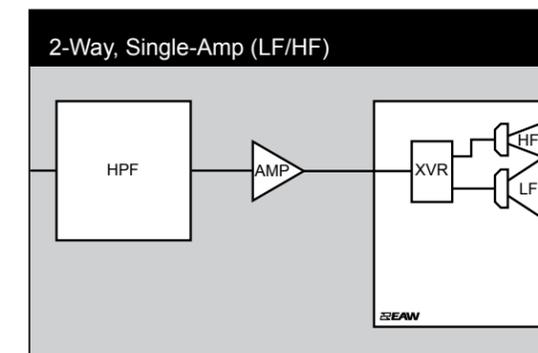
3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.

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



### SIGNAL



## LEGEND

- LF/MF/HF:** Low Frequency / Mid Frequency / High Frequency.
- AMP:** User Supplied Power Amplifier
- XVR:** Passive LPFs, HPFs, and EQ integral to the loudspeaker.
- EAW Focusing:** Digital Signal Processor capable of implementing EAW Focusing.

**RECOMMENDED AMPLIFIER CONFIGURATION**

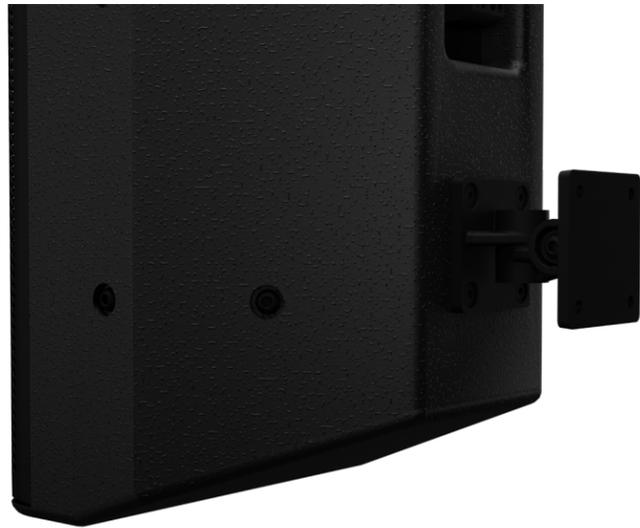
**SINGLE-AMP**



MODEL	PER CHANNEL	PER AMPLIFIER
UXA4401	1	4
UXA4403	4	16

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

**RIGGING CONFIGURATION**



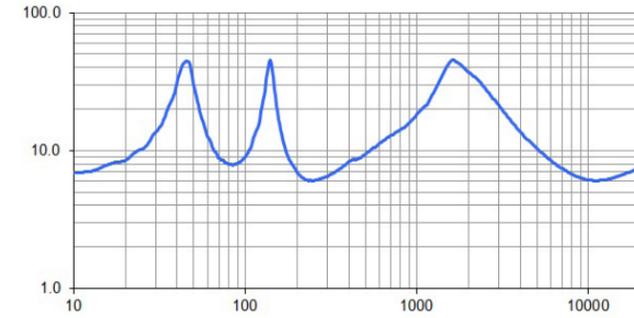
**MOUNTING HARDWARE**

**EAW**

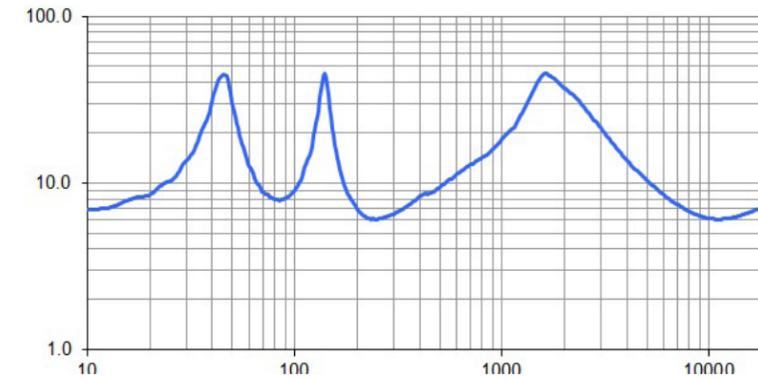
DESCRIPTION	PART NUMBER
Pan & Tilt Bracket	2071847 (shipped with product)
Ceiling Bracket	

**PERFORMANCE GRAPHS**

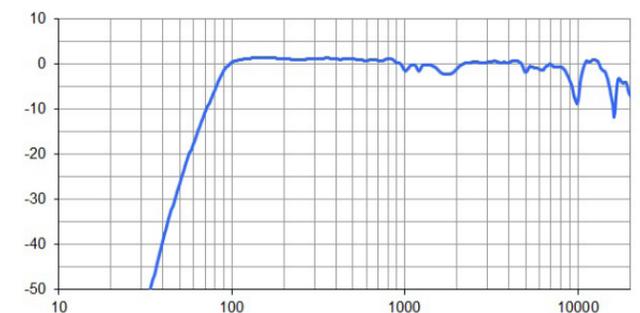
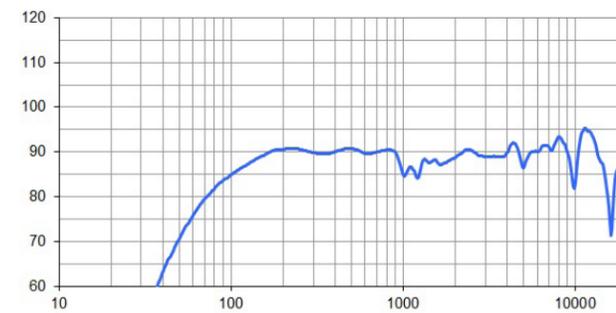
**PHASE LINEARITY**



**IMPEDANCE**



**FREQUENCY: ■=Overall Response Processed**



<sup>1</sup> 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.