

EVO55 System



2-Way 4-element Active Line-Array cluster

FEATURES

- 2-Way Dual 5" Ported Compact Line-Array element
- One active 1.4 kW EVO55-M element powers 3 EVO55-P passive elements
- Premium European High Efficiency custom IDEA Transducers (by Beyma)
- Proprietary IDEA High-Q 4-slot line-array waveguide
- Flown/Stacked configurations with BASSO24t F400, active and passive versions



APPLICATIONS

- Ultra-compact High SPL installed sound reinforcement
- FOH for small to medium size performance venues and clubs
- High SPL A/V portable sound reinforcement

OVERVIEW

This compact 4-element array cluster (smaller than a typical 15" 2-way loudspeaker) will always deliver SPL and coverage beyond the physical size of the system, while it can be rigged and operated with minimal logistical resources. It can be pole mounted, stacked and flown very easily by only one operator.

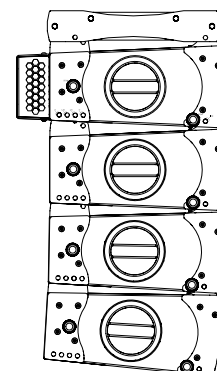
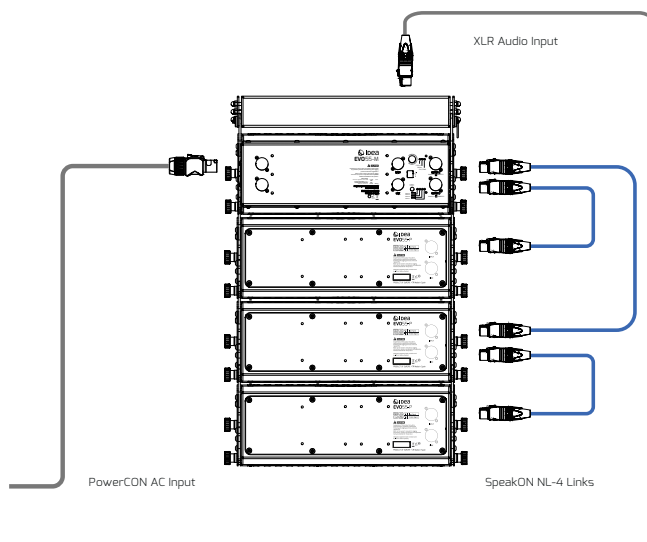
EVO55-P features HF assembly with a 1.75" compression driver and a proprietary wave-guide design and a dual-5" woofer configuration for the LF section.

BASIC SYSTEM CONFIGURATION

The active **EVO55-M** features a 1.4 kW Class-D amp and DSP power module by Powersoft so one **EVO55-M** element powers 3 additional **EVO55-P** elements in an active system, as shown in the diagram bellow, with the dedicated SpeakON NL-4 cable links included with every **EVO55-M**

Depending on the scale of the application, a medium-sized **EVO55-M** system can be easily split into smaller clusters for mobile and portable solutions..

Passive systems can be configured as factory ready TE0d8 driven amps.

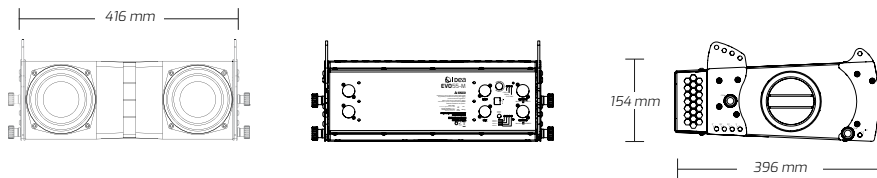


TECHNICAL DATA

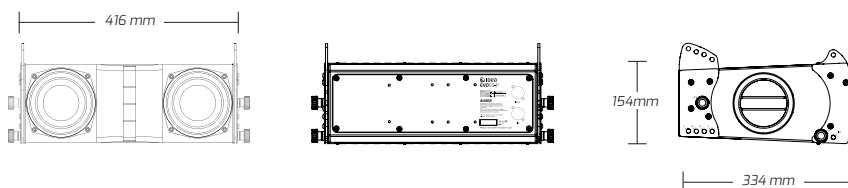
	EVO55-M (x1)	EVO55-P (x3)
Enclosure design		5° Trapezoidal
LF Transducer		2 x 5" High Performance Woofers
HF Transducer		1 x 1.75" Compression Driver
Amp/DSP Module	14 kW	-
Power Handling (RMS)	-	300 W
Nominal Impedance	-	16 Ohm
SPL (Continuous/Peak) per element		121/127 dB SPL
SPL (Continuous/Peak) 4-element system		125/131 dB SPL
Frequency Range (-10 dB) per element		69 - 19000 Hz
Frequency Range (-3 dB) per element		95 - 17000 Hz
Connectors	2 x XLR + 2 x PowerCON + 2 x NL-4	2 x NL-4
Cabinet Construction		15/18 mm Birch Plywood
Grille		1.5 mm perforated weatherised steel with protective foam
Finish		Durable IDEA proprietary Aquaforce High Resistance paint coating process
Rigging Hardware		High-resistance, coated steel integrated 4-point rigging hardware (internal splay angles: 0°-1.25°-2.5°-5°)
Dimensions (WxHxD)	416 x 154 x 396 mm (16.38 x 6.06 x 15.6 in)	416 x 154 x 334 mm (16.38 x 6.06 x 13.1 in)
Dimensions (WxHxD) System		416 x 622 x 396 mm (16.38 x 24.25 x 15.60 in)
Weight - per element	15 kg (33.1)	13 kg (28.7 lb)
Weight - System		54 kg (119 lb)
Handles		2 integrated handles
Accessories		Rigging frame (RF EVO55) Pole adaptor (PA EVO55)

TECHNICAL DRAWINGS

EVO55-M

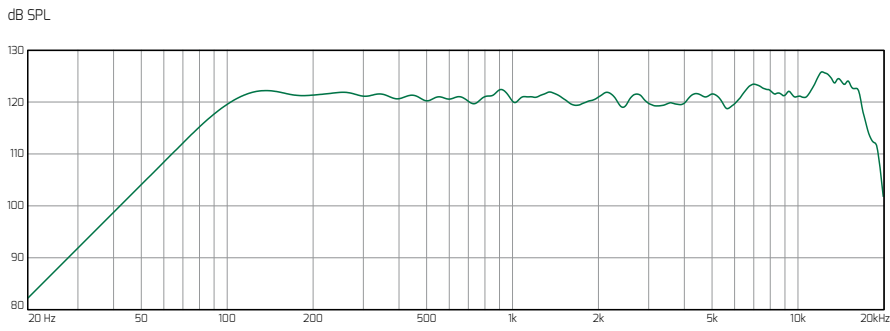


EVO55-P



ACOUSTICAL MEASUREMENTS

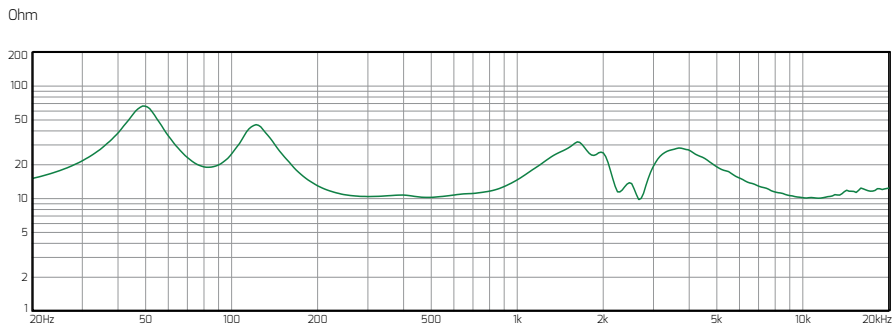
FREQUENCY RESPONSE



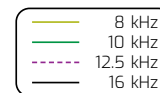
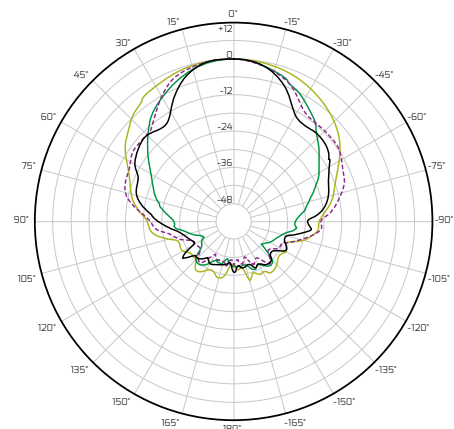
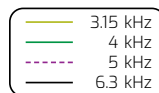
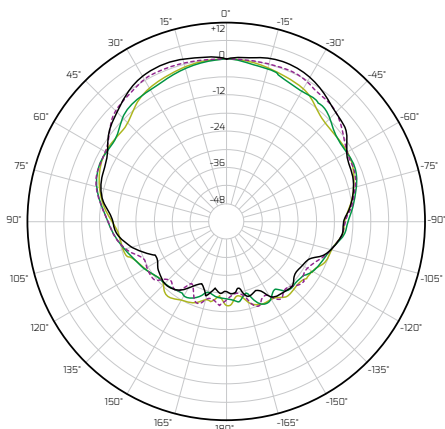
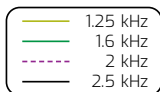
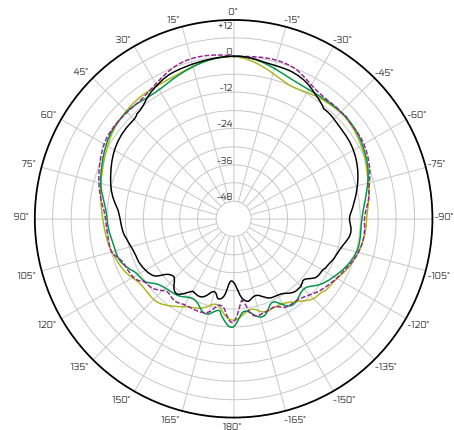
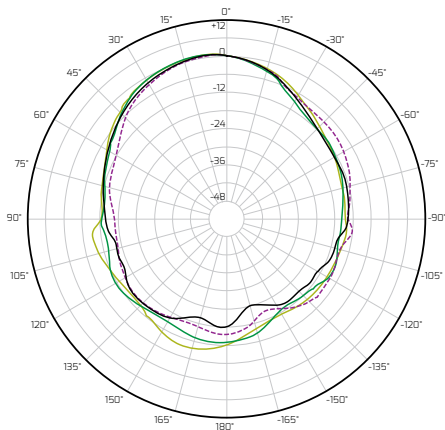
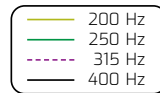
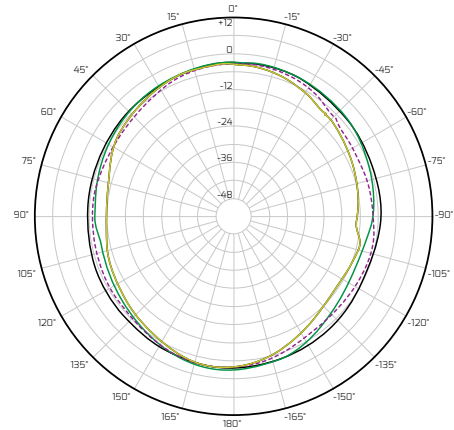
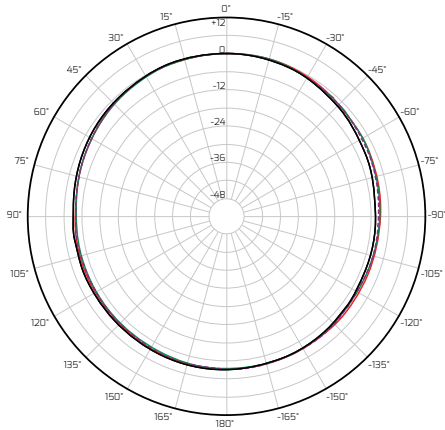
The above graph shows the frequency response for a 1-watt swept sine signal in an semi-anechoic environment (42π), measured at 3 m and scaled down at 1 m.

In order to provide more precise information for acoustical analysis, a 1/12 octave smoothing has been applied.

IMPEDANCE



HORIZONTAL 1/3 OCTAVE POLARS



VERTICAL 1/3 OCTAVE POLARS

