technical specifications

2-WAY MID / HIGH TOURING CLASS

EA622-2

product group: EagleArray Touring Class (FLYING)
system type: Dual Horn-Loaded 12" Mids + 2" HFD

construction

The EA622-2 is a horn loaded, high Q, 2-way high/mid system in a computer optimized enclosure. Loudspeaker complement consists of twin proprietary midrange 12"s and a single Unified Titanium Diaphragm[tm] compression driver. Waveguides utilize McCauley ClearFiber[tm] biaxially-stitched horn manufacturing technology. The enclosure is constructed of durable 12-ply void-free birch laminate, dadoed for strength and durability. The EA622-2 is configured with "ladder" handles and permanent ProTrack[tm] flyware for easy rigging. Perforated steel is employed for frontal protection of the loudspeaker complement.

Features:

- **ProTrack[tm] Flyware System**
- **McCauley Premium Class Componentry**
- **12 ply Dadoed Construction**
- **Durable ProCoat[tm] Elastomeric Finish**

the idea behind it

The EA622-2 was designed as a dedicated high/mid system for large format touring arrays with an emphasis on controlled coverage over long distances. Its extraordinary acoustic quality is a direct result of the implementation of McCauley's proprietary UTD[tm] technology, landing this system our highest performance rating. This system integrates with other McCauley products, offering consistent coverage and a uniform appearance.

Applications:

- **Concert Tours**
- **Stadium Installation**
- **Outdoors Event Sound**

Trapezoidal

ProTrack[tm]

performance parameters

power handling	**750w RMS**
frequency response	**70Hz - 20kHz**
nominal impedance	
Mid	**4Ω**
High	**16Ω**
sensitivity	
Mid	**109db**
High	**115db**
maximum output SPL	
Continuous	**135db**
Peak	**141db**
recommended crossover	**80Hz / 1kHz**
directivity/coverage	**45°x40° (HxV)**

physical properties

weight	**250lbs / 113kgs**
dimensions	
inches	**52H x 21W x 30D**
centimeters	**132H x 53W x 76D**
finish	**ProCoat[tm]**
enclosure material	**5/8" 12-ply Finland Birch**
construction	**rabbet & dadoed**
suspension	**multi-point ProTrack[tm]**
connectors	**parallel NL8**
transducers	**(2) 12" Midrange** **(1) UTD[tm] HF Driver**
recommended subwoofer	**EA588, EA688**

McCauley Sound Inc. - 16607 Meridian Avenue East - Puyallup, WA 98375 - U.S.A.
Call Toll Free: 1.877.McCauley - fax 253.841.3050 - http://www.mccauley.com

McCauley sound

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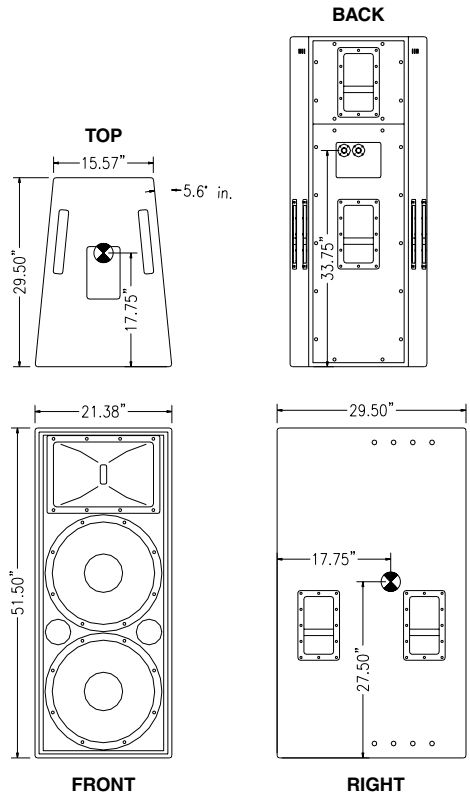
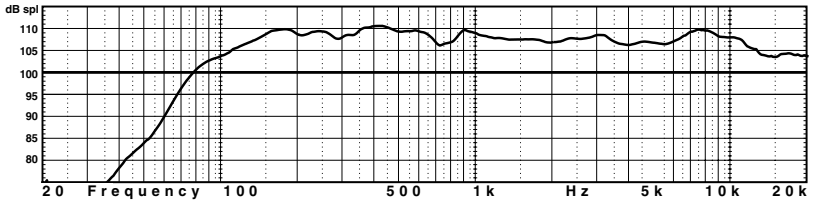
dimensional illustrations



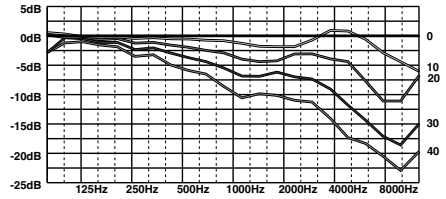
architectural specifications

The loudspeaker shall be a two-way horn loaded "Long Throw" type. It shall comprise two low/mid ClearFiber™ horn sections utilizing 12" transducers and one high frequency ClearFiber™ horn flare utilizing a 2" throat compression driver. The 12" low/mid transducers shall incorporate low distortion carbon fiber cone technology and the "Focused Field" removable magnet structure design. They shall have a power capacity of 600 watts RMS and 1200 watts peak and a sensitivity of 109 dB SPL at 1 meter with 2.83 volts into a nominal 4 ohm load. The high frequency driver shall incorporate "Unified Titanium Diaphragm" technology with a power handling capacity of 150 watts RMS above 1.5kHz and a sensitivity of 115 dB SPL at 1 meter with 2.83 volts into a nominal 16 ohm load. The combined loudspeaker system shall be capable of 132dB SPL continuous and 138 dB SPL peak maximum output. The loudspeaker system shall have an effective operating range of 100 Hz to 18 kHz +/- 3 dB (70Hz to 22 kHz – 10 dB). The loudspeaker shall offer nominal coverage angles of 45° horizontal, and 40° vertical. The TC622-2 shall weigh a total of 235 lbs. and shall measure 51.5 inches tall, 21.4 inches wide (15.2 inches at rear), 29.5 inches deep with a trapezoidal shape and the sides shall be angled at 5.6° from front to back. The EA622-2 enclosure shall be constructed of 12-ply birch hardwood and shall have a weather and wear resistant ProCoat™ elastomeric finish. The EA622-2 enclosure shall incorporate 10 position industry standard ProTrack™ flyware, two each top and bottom. Electrical connections shall be made via paralleled NL-8 connectors. The loudspeaker shall be the McCauley EA622-2.

response data



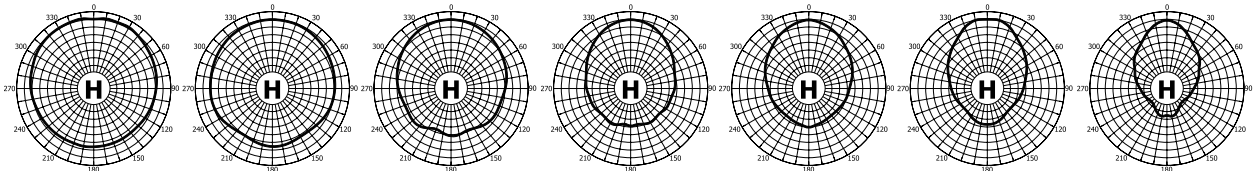
on axis response (2.83v@1m, free-field conditions)

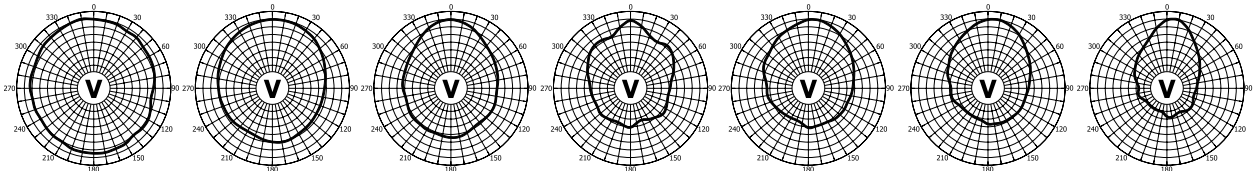


off axis response (normalized to on axis response)

polar data

Outer ring is +6dB, each ring represents an additional -6dB down.
For vertical plots, 90° represents the top of an enclosure, 270° is the bottom.





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