

SA92-1

product group: Stage Performance Series
system type: 12"x1" POINT-SOURCE COAXIAL



A construction

The SA92-1 is a full range, 2-way point-source coaxial system in a trapezoidal, computer optimized enclosure. Loud-speaker complement consists of a single proprietary coaxial device. Mechanical attachment aligns the acoustic center of the high frequency driver with that of the low frequency transducer, distributing perfectly aligned high and low frequency energy along an 80° conical coverage pattern. An optimized crossover network is included standard. A standard tripod / polemount adaptor is included. Handles are balance-optimized to facilitate transportation. The enclosure is constructed of durable 12-ply void-free birch laminate, dadoed for strength and durability. Perforated steel is employed for frontal protection of the loudspeaker complement.

Features:

- Coaxial Point-Source Design
- Optimized Internal Crossover
- McCauley Performance Class Componentry
- Tripod / Polemount Adaptor
- 9 ply Dadoed Construction
- Durable ProCoat™ Elastomeric Finish



💡 the idea behind it

The SA92-1 was designed as a ultra-compact, full range system for smaller scale environments where high quality, high SPL sound is needed from an extraordinarily small enclosure. The SA92-1 takes advantage of McCauley's proprietary MCX coaxial transducer technology, which allows the SA92-1 to outperform conventional systems many times its size.

Applications:

- DJ Sound
- Live Events
- Corporate / Seminar
- General Sound Reinforcement

performance parameters

power handling	400w RMS
frequency response	60Hz - 20kHz
nominal impedance	8Ω
Low	16Ω
High	
sensitivity	96db
Low	109db
High	
maximum output SPL	123db
Continuous	129db
Peak	
recommended crossover	1.2kHz
directivity/coverage	80°x80° (HxV)

physical properties

weight	54lbs / 24kgs
dimensions	15H x 14W x 12D
inches	38H x 36W x 30D
centimeters	
finish	ProCoat™
enclosure material	5/8" 12-ply Finland Birch
construction	rabbet & dadoed
suspension	polemount adaptor
connectors	NL4 connectors
transducers	(1) 12"x1" Full Range Coaxial Transducer

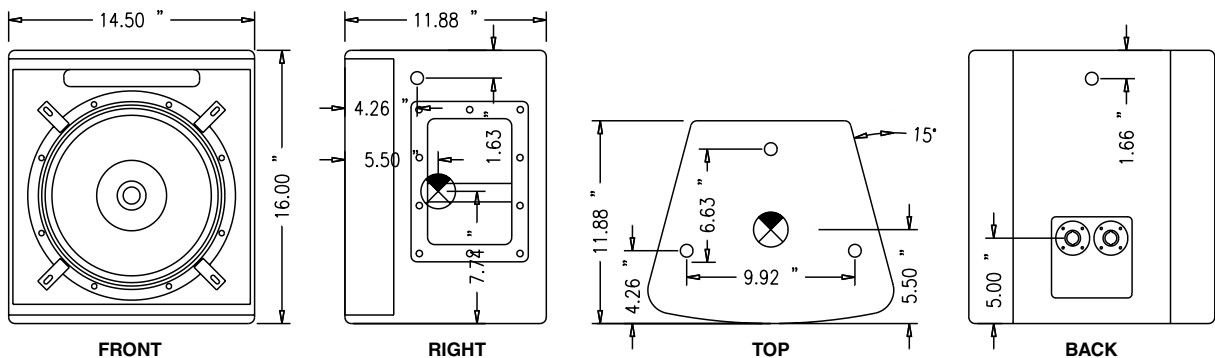
technical specifications

SA92-1
2-WAY FULL RANGE COAXIAL

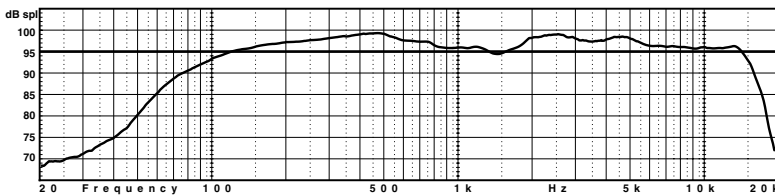
architectural specifications

The loudspeaker shall be a two-way type with one 12" Full Range 2 Way Coaxial Point Source driver mounted in a bass reflex enclosure. The low frequency section shall contain one MCX 12" "Focused Field" driver with a power handling capacity of 300 watts RMS and shall have a sensitivity of 96 dB SPL measured at 1meter with 2.83 volts into a nominal 8 ohm load. The high frequency section shall consist of one MCX 1" exit compression driver and horn combination with a power handling capacity of 100 watts RMS and a sensitivity of 109 dB SPL measured at 1meter with 2.83 volts into a nominal 16 ohm load. The combined loudspeaker system shall be capable of 123 dB SPL continuous and 129 dB SPL peak maximum output. The loudspeaker system shall have an effective operating range of 100 Hz to 17 kHz +/- 3 dB (60Hz to 20 kHz -10 dB). The loudspeaker shall offer symmetrical coverage angles of 80° Horizontal, and 80° Vertical. The enclosure shall weigh a total of 54 lbs. and shall measure 15 inches tall, 14 inches wide (9.25 inches at rear), 12 inches deep. The enclosure shall have a 35° fixed angle bottom, and the sides shall be angled at 15° from front to back forming a trapezoidal shape. The enclosure shall be made of 12-ply birch hardwood and shall have a weather and wear resistant ProCoat™ elastomeric finish. The enclosure shall incorporate two steel handles on the side for easy mobility. Electrical connections shall be made via Neutrik NL-4 connectors. An optimized passive crossover network shall be mounted internally. The loudspeaker shall be the McCauley SA92-1.

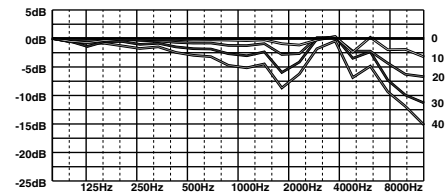
dimensional illustrations



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.

