

SM95-2

product group: Stage Monitor
system type: 15"x 2" POINT-SOURCE COAXIAL

construction

The SM95-2 is a full range, 2-way point-source coaxial system in a computer optimized enclosure. Loudspeaker 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 switchable biamp to passive crossover network is included standard. 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
- Switchable Passive to Biamp Crossover
- 12 ply Dadoed Construction
- Durable ProCoat™ Elastomeric Finish



the idea behind it

The SM95-2 was designed as a compact, full range monitoring system for professional touring and staging applications, with emphasis on providing superior, high-impact sound while maintaining a very small footprint and low stage profile. Utilizing McCauley's high impact Coaxial componentry, the SM95-2 offers extraordinary acoustic quality and high SPL output, rivaling conventional systems many times its size.

Applications:

Professional Touring / Stage Monitor

performance parameters physical properties

power handling	600w RMS	weight	71lbs / 32kgs
frequency response	50Hz - 18kHz	dimensions	
nominal impedance		inches	18H x 18W x 16D
Low	8Ω	centimeters	46H x 46W x 41D
High	16Ω	finish	ProCoat™
sensitivity		enclosure material	5/8" 12-ply Finland Birch
Low	98db	construction	rabbet & dadoed
High	110db	suspension	none
maximum output SPL		connectors	parallel NL4
Continuous	126db	transducers	(1) 15"x2" Full Range Coaxial Transducer
Peak	132db		
recommended crossover	1.2kHz		
directivity/coverage	80°x80° (HxV)		

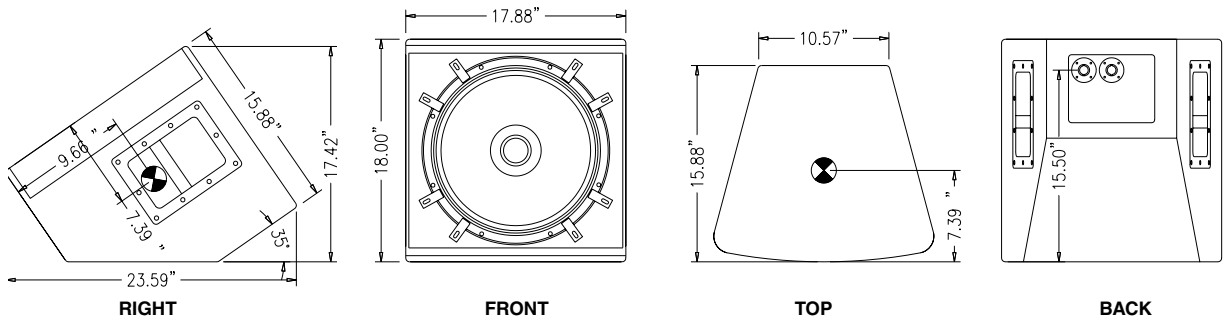
technical specifications

SM95-2
2-WAY FULL RANGE STAGE MONITOR

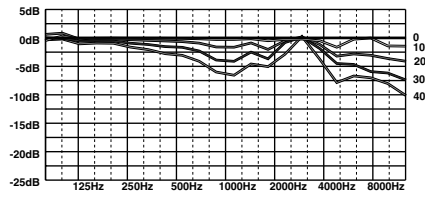
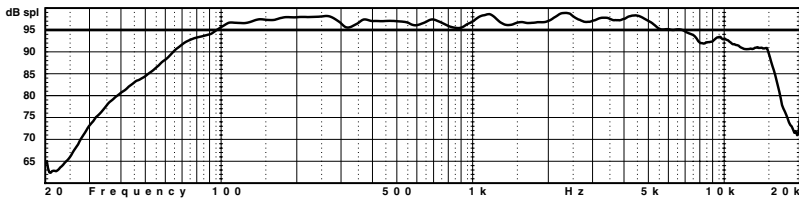
architectural specifications

The loudspeaker shall be a two-way floor monitor type with one 15" Full Range 2 Way Coaxial Point Source driver mounted in a bass reflex enclosure. The low frequency section shall contain one MCX 15" "Focused Field" transducer with a power handling capacity of 400 watts RMS and shall have a sensitivity of 98 dB SPL measured at 1 meter with 2.83 volts into a nominal 8 ohm load. The high frequency section shall consist of one MCX 2" exit compression driver and horn combination with a power handling capacity of 150 watts RMS and a sensitivity of 110 dB SPL measured at 1 meter with 2.83 volts into a nominal 16 ohm load. The combined loudspeaker system shall be capable of 126 dB SPL continuous and 132 dB SPL peak maximum output. The loudspeaker system shall have an effective operating range of 70 Hz to 12 kHz +/- 3 dB (50Hz to 18 kHz - 10 dB). The loudspeaker shall offer symmetrical coverage angles of 80° horizontal, and 80° vertical. The enclosure shall weigh a total of 75 lbs. and shall measure 18 inches tall, 18 inches wide (10.5 inches at rear), 16 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 one steel handle on each side for easy mobility. Electrical connections shall be made via paralleled Neutrik NL-4 connectors, or optional NL-8 or EP series connectors. An optimized passive crossover network shall be switchable between full range and bi-amp modes. The loudspeaker shall be the McCauley SM95-2.

dimensional illustrations



response data



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.

