



The SM80 is an ultra-compact design that performs like no other speaker it's size. Utilizing the same patented Synergy Horn[™] technology as the renowned SH Series the SM80 can produce quality audio beyond 130dB all from a loudspeaker weighing only 65 lbs. The SM80 features a 12"/1.4" coaxial driver mated to an 80 degree conical horn that maintains excellent pattern control to very low frequencies despite its very compact size.

The 13 ply Baltic Birch used throughout the enclosure is encased in PolyUrea for protection from impact and atmospheric conditions. Install and touring versions are equipped with M10 rig points. Our EW (Extreme Weather) variant offers the ultimate in protection from the elements due to the use of high-density polyurethane panels impregnated with fiberglass fibers in the place of standard plywood.

As an added layer of protection we include our Sentinel[™] high frequency driver protection circuitry which is a multistage limiter that protects the high frequency driver in the event of overloads (peaks or long term). It is inaudible during normal operation, so dynamic range is not compromised.

Performance Specifications

Operatina Mode Single channel amplified two-way loudspeaker **Operating Range** 140Hz - 19Hz +/-3dB 110Hz - 22KHz - 10dB **Coverage Pattern** 80 Conical Transducers 1x 12" Coaxial driver Power Handling 400 W Cont. | 1600 W Peak Sensitivity measured at 1M @ 2.83V input 102 dB Maximum SPL (continuous | peak) 128 dB | 134 dB **M** Noise M Noise Coming Soon Impedance 8 Ohm **Recommended Power Amplifier** 400 - 800 Watts **Physical Specifications** Connections (SM80-I/SM80-T) (2) Neutrik NL4 Speakon wired in Parallel Pin 1+/- | Full Range Pin 2+/- | Pass Through Connections (SM80-I-EW) 1x 2 Conductor Lead-in Wire Mounting / Suspension Points (2) M10 yoke points (SM80-I/SM80-I-EW) (12) M10 rigging points (SM80-T/SM80-I/SM80-I-EW) **Dimensions / Weight** 25.5 x 24 x 12.75 in. | 647.7 x 609.6 x 323.85 mm. 65 lbs | 29.48 Kg Finish Black polyurea coated enclosure w/ matte black grille, or White polyurea coated enclosure w/ matte white grille Gray UV resistant polyurea coated enclosure w/ matte grey grille **Enclosure Material** 18mm Baltic Birch, polyurea coated Options Aqua Tight Version SM80-I-AT SM80-I-EW Extreme Weatherized Version SM80-I Install Version SM80-T **Touring Version**

Accessories

BRKT-SM80-U

U-Bracket for the SM80 (Wall or Ceiling)



ARCHITECT/ENGINEERS SPECS

The loudspeaker shall utilize the Synergy Horn patented crossover network. The coverage pattern shall be 80° conical. The loudspeaker shall have an operating range of 110 Hz – 22 kHz. Sensitivity of 102 dBSPL @ 1m. Output of 128dBSPL/134 dBSPL Peak. Power handling shall be 400 Watts continuous 800 program.

The loudspeaker shall be constructed of 13 ply Baltic birch, water resistant Polyurea coated, properly braced for the intended use and a rugged steel grill. The connectors shall be Neutrik NL4. The loudspeaker shall be the Danley Sound Labs SM80.

Sensitivity



Impedance





Horizontal Directivity Contour





Vertical Directivity Contour



Vertical Polar Response



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