

SM82TEN-B(WH)

Strategy Series® Surface Mount Loudspeaker System



Features

- Compact, 2-way Loudspeaker Systems for Exceptional Performance in Music and Sound Reinforcement Systems
- Weather-Resistant Construction for Year-Round Indoor or Outdoor use: UV-Resistant, PC/ABS Injection Molded Enclosure, Powder Coated Aluminum Grilles and All Brass Hardware Inserts
- Conforms to 100HR Salt Spray Test Per ASTM B117
- EN54-24 Certified
- Color Matched Heavy-Duty Zinc Chromate Plated and Powder Coated "C" Bracket (Included)
- Highly Efficient 8"(203mm) HYCONE™ Treated Woofer
- 1" (25mm) Exit Titanium High Frequency Compression Driver
- AtlasIED TRX WAVEGUIDE™ – A Constant Directivity Style High Frequency Wave Guide System Provides Accurate and Even High Frequency Coverage
- AtlasIED POLYGUARD™ High Frequency Circuit Diverts Damaging Transient Signals to Protect the Tweeter
- Screwdriver Adjustable 60 Watt 70.7V/100V/8Ω Transformer for Distributed Sound and Direct Coupled 8Ω Applications
- All 1/4"-20 Hardware Inserts Allow Easy Integration of "Off-The-Shelf" Security Hardware
- OMNIMOUNT™ 30 Series Compatible
- Available in Black (RAL-9011) or White (RAL-9014)
- Five-Year Warranty

Applications

- Indoor / Outdoor
- Retail
- Restaurants
- Corporation
- House of Worship

General Description

Environment-resistant EN54-24 certified SM Series loudspeaker systems offer quality sound reproduction and contemporary styling in a compact enclosure. System components consist of a highly efficient woofer section and ferrofluid cooled, titanium dome high frequency device. Vocal and musical clarity are optimized by the mathematically conceived, advanced design of the AtlasIED TRX Control WaveGuide™ high frequency director. This design provides smooth, even sound coverage (65°H x 65°V). The high frequency section is symmetrical, for equal coverage in both vertical and horizontal cabinet mounting positions. The AtlasIED PolyGuard™ protection circuit provides high frequency component protection. To withstand the harshest environments, the Strategy Series SM82TEN surface mount loudspeakers are constructed of weather resistant materials: UV-resistant, talc impregnated, polypropylene injection molded cabinets; HYCONE treated paper woofer cones; powder coated aluminum grilles and all brass hardware. The Strategy Series speaker systems include a versatile, yet simple, C-bracket designed to provide easy vertical or horizontal installation on just about any surface. A 15mm (.59") hole is provided on the C-bracket to allow the SM82TEN speaker to be mounted on any AtlasIED microphone stand for nearfield live sound applications. Four 4 1/4" x 2" (108mm x 51mm) OC brass inserts are also provided on the rear of the SM82TEN-B and SM82TEN-WH to accommodate OMNIMOUNT™ 30 series brackets. (OMNIMOUNT 30.0 WB recommended for wall mounting).

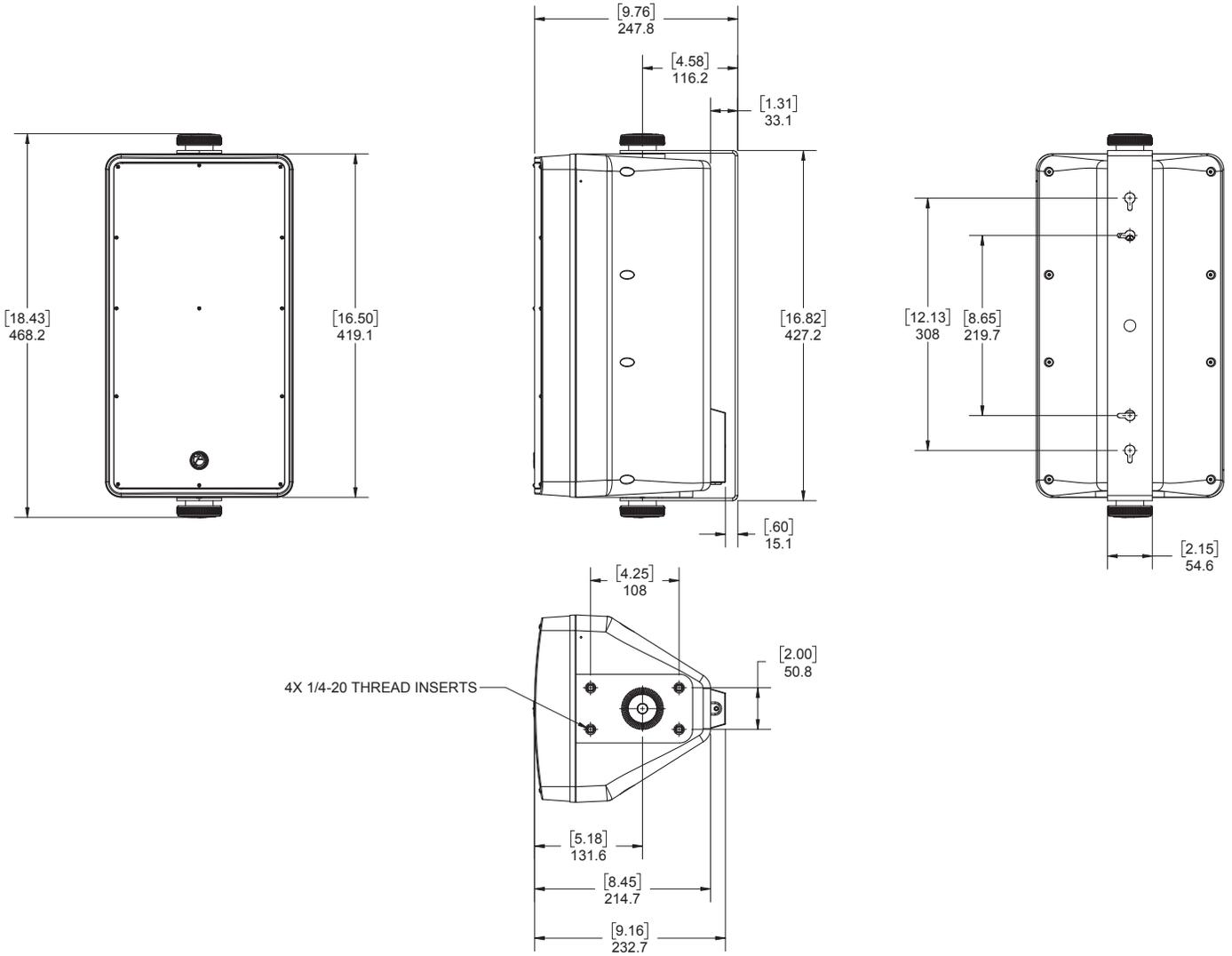
All inserts for mounting knobs are standard 1/4"-20 to allow easy substitution of off-the-shelf vandal-proof torx head or "one-way hardware. Input connectors include a two-pole barrier strip with wire capture "caps" capable of accepting up to two #16AWG cables. 1.9, 3.7, 7.5, 15, 30 and 60 Watt taps, plus a transformer bypass setting for direct coupled 8Ω operation are screwdriver selectable via a sealed switch located near the input section on the rear of the cabinet. A tongue-in-groove cover with rubber wire exit grommet is provided to protect the input connections and transformer switch assembly from moisture. Systems are available in black or white and may be painted to accommodate any architectural considerations.

Specifications	
Model	SM82TEN(-B)(-WH)
Power Rating (RMS)	150 Watts
Transformer Taps	1.9W, 3.8W, 7.5W, 15W, 30W, 60W, & Low Impedance (8Ω)
Frequency Response	65Hz - 20kHz (±3dB)
Sensitivity (1W/4m)	92dB
EN54-24 Sensitivity (1W/4m)	72dB
Woofer Size	8" (203mm)
Woofer Cone	HYCONE Treated Paper
Woofer Surround	Treated Cloth
Woofer Magnet	30oz
Compression Driver Size	1" (25mm)
Compression Diaphragm Material	Titanium
Compression Driver Magnet	13.32oz
Crossover Frequency	2.2kHz
Crossover Type	1st Order Low Pass, 2nd Order High Pass
Height	16 1/2" (419mm)
Width	9 1/16" (203mm)
Depth	8 7/16" (214mm)

Installation Considerations:

Care should be taken to ensure that the chosen mounting surface is strong enough to support the SM82TEN-B and SM82TEN-WH. Under eave installation is recommended to ensure that the SM82TEN-B and SM82TEN-WH is not exposed to direct precipitation.

Dimensional Drawings



Architect & Engineer Specifications

The indoor/outdoor loudspeaker system shall be AtlasIED Model SM82TEN- (B or WH) or approved equal. Assemblies shall consist of a 2-way, woofer and tweeter, within environment-resistant housings constructed of paintable UV-resistant, Polycarbonate/acrylonitrile butadiene styrene injection molded plastic finished in black (SM82TEN-B) or white (SM82TENWH). Each unit shall include a stamped, powder coated aluminum grille and removable C-shaped mounting bracket. All hardware inserts shall be brass and threaded 1/4"-20. The 150 Watt RMS system shall have a 8" (133mm) HYCONE™ treated woofer and a 1" (25mm) exit compression type tweeter. The dividing network crossover frequency shall be 2.5 kHz. The dividing network shall include protection circuits for the highfrequency component. Each unit shall include an internally mounted 60 Watt 70.7V/100V line matching transformer for use in distributed sound applications Wattage taps and be screwdriver selectable via a sealed switch located near the input section. Wattage taps shall be 1.9W, 3.7W, 7.5W, 15W, 30W, and 60W @ 70.7V plus transformer bypass setting for direct coupled 8Ω operation. The loudspeaker system shall meet the following performance criteria: Power handling: 150 Watts RMS; Frequency response: 65Hz – 20kHz (±3dB); Pressure sensitivity: 92dB SPL at one Watt, 100Hz to 10kHz measured at a distance of one meter on axis. Input connectors shall include a two-pole barrier strip capable of accepting up to two #16AWG cable. A tongue-in-groove cover with rubber wire exit grommet shall be provided to protect the input connectors. The loudspeaker system shall exhibit no performance or cosmetic degradation after a 100 hour salt spray test per ASTM B117. The unit shall be 16 1/2" (419mm) high x 9 1/16" (230mm) wide x 8 7/16" (214mm) deep.