



AE-7

ARRAYABLE LOUDSPEAKER SYSTEM

DESCRIPTION:

The AE-7 is a fully arrayable, two-way, single-amped loudspeaker system providing high level output and low distortion in an enclosure dimensioned for optimum truck packing. For full-range applications, the AE-7 requires the addition of a subwoofer, such as the AE-7SB.

DRIVER COMPLEMENT:

LOW FREQUENCY: Dual Apogee 10" (254mm) permanent magnet cone type drivers, are treated with a waterproofing compound, providing resistance to moisture, and enabling long-term stability of cone resonance and cone mass parameters

HIGH FREQUENCY: Apogee 2" (51mm) horn-loaded compression driver, treated with Ferrofluid® for greater power handling capability, lower distortion, and control of short-term impedance rise

INPUT CONNECTORS:

Neutrik™ NL4MP Speakon™ connectors standard; Cannon AP series and gas-tight barrier strips optional

COMPATIBLE PROCESSORS:

DLC24 Digital Controller

HANDLES:

Six handles designed as an integral part of enclosure (no moving parts)

GRILLE:

Powder-coated, diamond-punched steel with acoustic foam covering

TRIM:

Optional protective steel trim pieces on top and bottom edges; powder-coated for durability

RIGGING HARDWARE:

Eight 12-gauge steel nutplates, mounted four on top and four on bottom, recessed, nominally flush; accepts 3/8"-16 thread (10mm nutplate or Aeroquip Pan fittings optional); nutplates are backed with 12-gauge steel internal brackets

FINISH:

Textured high-strength black epoxy paint; other colors optional

ENCLOSURE TYPE:

30° trapezoidal, horn-loaded, optimally-vented bass

CABINET CONSTRUCTION:

Multi-ply birch with stainless steel fasteners

ENGINEERING DATA:

FORMAT:

Single-amped/Two-way/Electronically-coupled

DISPERSION:

H: 60° x V: 40°

FREQUENCY RESPONSE (1M ON AXIS):

150 Hz to 18 kHz ± 3 dB, -10 dB @ 75 Hz

MAX. SPL (@1M):

132 dB cont./141 dB peak

PTML (PEAK TRANSIENT MECHANICAL LIMIT):

152 dB

SENSITIVITY (1W @ 1M):

106 dB/100 Hz to 10 kHz

NOMINAL IMPEDANCE:

8 ohms

MAX. POWER HANDLING:

500W cont./2000W peak

DIMENSIONS:

front: 24" (610mm) W x 38" (965mm) H

rear: 12.3" (313mm) W x 38" (965mm) H

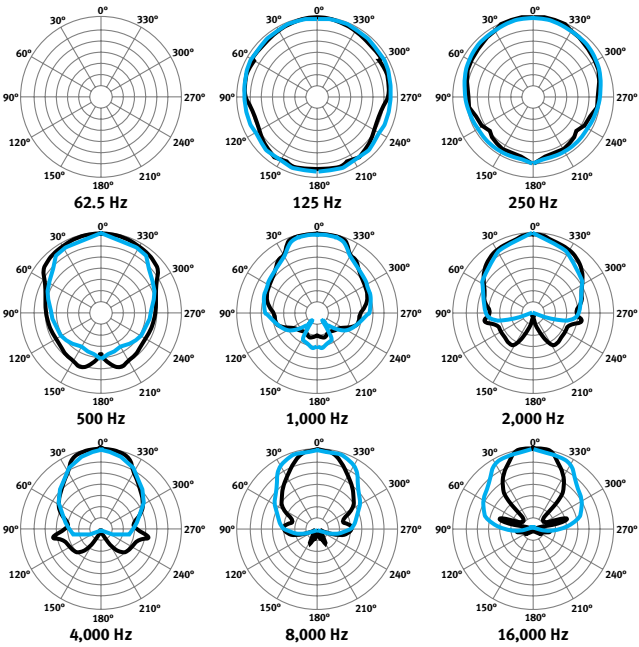
depth: 25" (635mm)

WEIGHT:

170 lb. (78 kg)

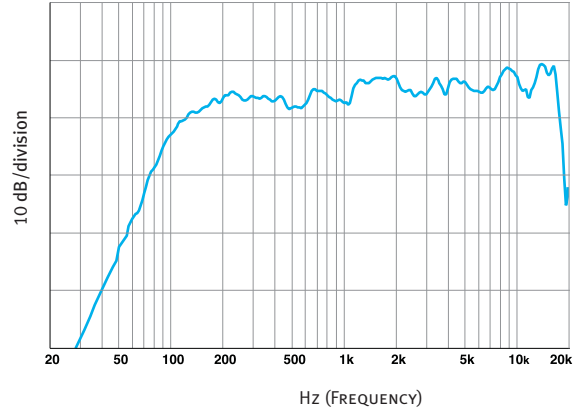
APOGEE
SOUND INTERNATIONAL

POLAR MEASUREMENTS AE-7 (6 dB/division, normalized)



HORIZONTAL — All polar measurements obtained in a free-field environment at 10° increments.
VERTICAL —

FREQUENCY RESPONSE AE-7 (with controller)



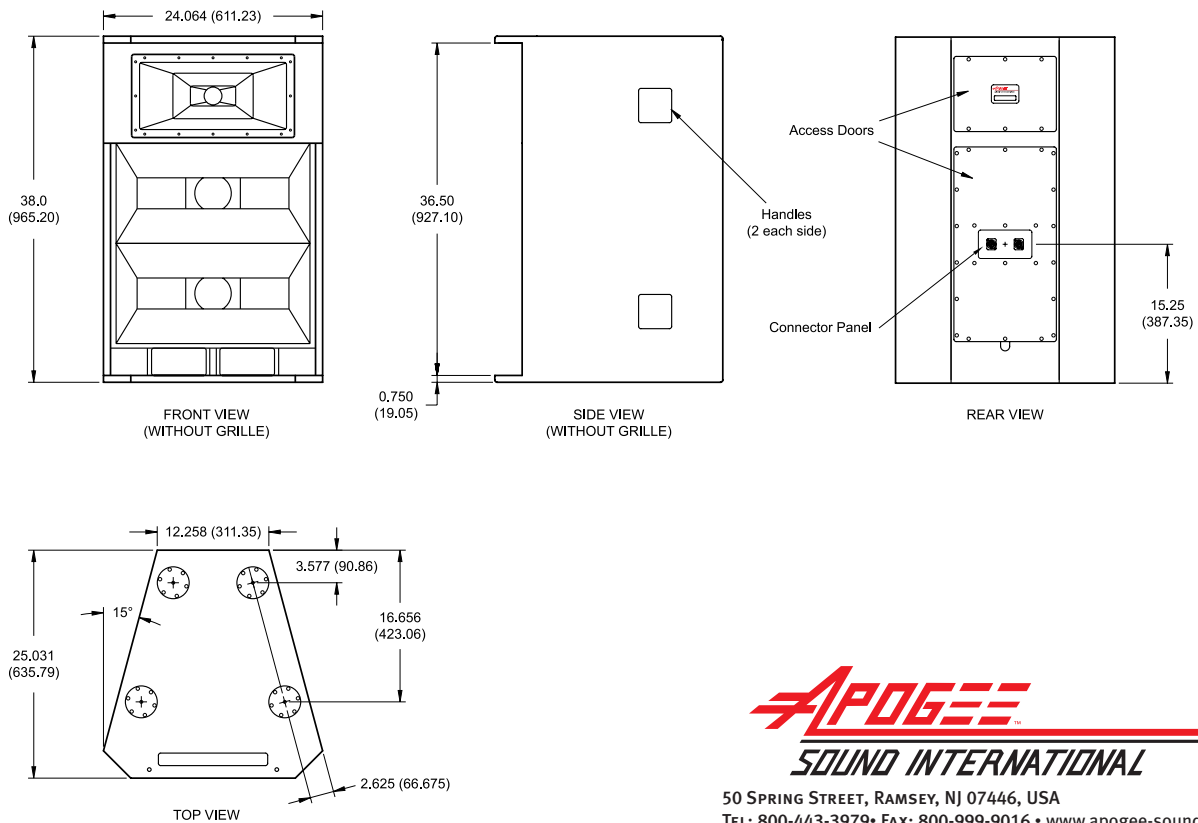
Measured in a free-field anechoic environment using a swept one-third octave input.

PROCESSOR NOTES:

The DLC24 Digital Loudspeaker Controller is a digital engine with an analog surface. It combines the most advanced technology available with intuitive interfaces to provide the key elements that ensure optimal loudspeaker system performance and management in a variety of live sound and fixed installation applications.

The controller provides factory-set equalization curves to smooth the response, protective limiting, and active crossovers (for bi-amplified models and subwoofers).

DIMENSIONAL DRAWINGS AE-7 (dimensions in inches and millimeters)



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