



AE-10

COMPACT SUBWOOFER SYSTEM

DESCRIPTION:

Characterized by a tight and punchy sound, the AE-10 adds depth and dramatic impact to musical passages. When mated with AE loudspeakers, the AE-10 extends low frequency response without muddying or coloring the upper frequencies.

DRIVER COMPLEMENT:

Dual Apogee 15" (381mm) 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; also 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 EP series and gas-tight barrier strips optional

COMPATIBLE PROCESSORS:

P-10, DPA-10, D-1 Digital Controller

HANDLES:

Eight handles designed as an integral part of the 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:

Four 12-gauge steel nutplates, mounted two on top and two 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:

20° trapezoidal, optimally-vented bass

CABINET CONSTRUCTION:

Multi-ply Finland birch with stainless steel fasteners

ENGINEERING DATA:

FORMAT:

Single-amped/Electronically-coupled

DISPERSION:

Omni-directional

FREQUENCY RESPONSE (1M ON AXIS):

38 Hz to 120 Hz ± 3 dB

MAX. SPL (@1M):

125 dB cont./131 dB peak

PTML (PEAK TRANSIENT MECHANICAL LIMIT):

142 dB

SENSITIVITY (1W @ 1M):

95 dB/20 Hz to 100 Hz, each driver

NOMINAL IMPEDANCE:

8 ohms, each driver; separate connections to each driver pair

MAX. POWER HANDLING:

800W cont./3200W peak (400/1600W peak, each driver)

DIMENSIONS:

front: 32" (813mm) W x 22.5" (572mm) H

rear: 25" (635mm) W x 22.5" (572mm) H

depth: 24" (610mm)

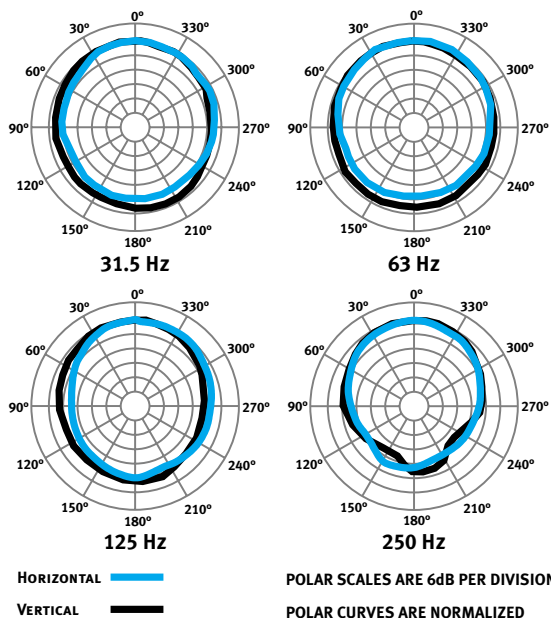
WEIGHT:

131 lbs. (59.5 kg)

APPLICATIONS:

- CONCERTS
- THEATERS
- CLUBS & DISCOS
- SOUND STAGES
- HOUSES OF WORSHIP

APOGEE
SOUND INTERNATIONAL, LLC



AE-10 POLAR MEASUREMENTS

All polar measurements obtained in a free-field environment at 10 degree increments. Data acquired utilizing: TEF System 12+, B&K 4007 Mic, HP 35660A Dual-Channel FFT Analyzer.

P-10 PROCESSOR SPECIFICATIONS

FRONT PANEL CONTROLS

- LEVEL:** Continuously adjustable with positive detents; linear taper controls allow precision attenuation
- PHASE REVERSE:** Selects in-phase or reverse phase output to low frequency drivers
- LINK:** Allows all subwoofer outputs to be driven by either or both inputs
- HIGH-PASS:** Selects high-pass or full-range output to other processors
- PRESET:** Enables rear panel PAR adjustments for calibration of the protection circuitry to the amplifier's dynamic headroom characteristics
- LOCKOUT SWITCH:** Freezes the selected state of the other functions to avoid tampering
- RV ONLY:** Front panel line-level XLR inputs with "loop through" XLR outputs; front panel speaker output connectors (Neutrik™ NL4MP Speakon™ connectors standard; other connectors available); front panel pin 1 ground lift switches
- PV ONLY:** Rear panel barrier strip for pin 1 ground lift

SYSTEM PROTECTION

- RMS LIMITER:** 100ms integration time for protection against long-term overdrive
- PEAK LIMITER:** 3 to 5ms fast-acting to help protect against very high level transients
- USER ADJUSTABLE LIMITER THRESHOLD:** For control of amplifier clipping
- EXCURSION CONTROL:** Program defined adaptive enclosure alignment (modified B6)
- INPUTS:** XLR connectors, active balanced inputs (optional transformer-balanced inputs utilizing Jensen JE-11 P-1 transformers); note - pin 2 hot
- INPUT IMPEDANCE:** 50k-ohm AC-coupled active balanced (10k-ohm balanced with optional input transformer)
- OUTPUTS:** Active balanced AC-coupled outputs - XLR connectors on rear panel
- DISTORTION:** .02% THD typical at maximum output (+20 dBm)
- HUM & NOISE:** Better than -90 dBV
- DYNAMIC RANGE:** 110 dB

DIMENSIONS

- PVS:** 19" (483mm) W x 1.8" (46mm) H x 11.8" (300mm) D; (1 EIU rack space)
- PVD & RVD:** 19" (483mm) W x 3.5" (89mm) H x 11.8" (300mm) D; (2 EIU rack spaces)
- WEIGHT:** **PVS:** 12 lbs. (5.5 kg)
PVD & RVD: 17 lbs. (7.8 kg)

PVS FOR PERMANENT INSTALLATIONS (SINGLE-CHANNEL)



PVD FOR PERMANENT INSTALLATIONS (DUAL-CHANNEL)



RVD ROAD VERSION (DUAL-CHANNEL)



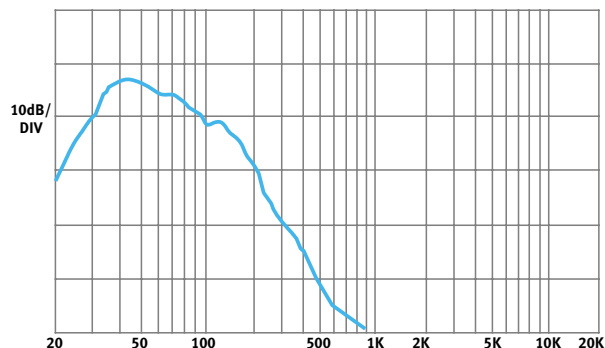
The P-10 processor is available in three versions to meet the requirements of permanent system installers and portable system operators. Each includes servo-loop protection circuits, time and frequency domain correction, and precision front-end utilizing factory-matched components for high Common Mode Rejection. All models feature front panel function switches (which retain their settings through power-up/power-down cycles), turn-on/turn-off muting, and Apogee's unique PAR™ adjustable protection circuitry. PAR (Positive Amplifier Return) senses the output of the amplifier and engages low distortion limiters to aid in protecting the drivers under abusive conditions. By selecting a "User Preset" mode, the protection circuits can be adjusted to match a wide range of power amps.



DIGITAL LOUDSPEAKER CONTROLLER: D-1

The D-1 Digital Loudspeaker Controller provides all of the functions of an Apogee analog processor, and much more. Please call, write or fax—and we'll send you D-1 literature.

AE-10 LOUDSPEAKER



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

LIMITED WARRANTY: Apogee Sound International products, sold in the U.S.A., are warranted to be free from defects in materials and workmanship from the date of original purchase for a period of five (5) years for amplifiers and a period of one (1) year for other equipment. If a malfunction occurs, the unit will be repaired or replaced, at our option, provided it is shipped prepaid to an authorized Apogee Service Facility. This warranty does not extend to finish; appearance items; or any product malfunctions due to abuse, accident, misuse, negligence, misapplication, or improper operation. Other conditions apply. Contact Apogee for further information.



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