

DRIVER COMPLEMENT:

LOW FREQUENCY: One Apogee 12" (305mm) permanent magnet cone-type driver is treated with a waterproofing compound, providing resistance to moisture, and enabling long-term stability of cone resonance and cone mass parameters

HIGH FREQUENCY: One Apogee 1"(25mm) throat composite diaphragm compression driver is 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-500, DPA-500, D-1 Digital Controller

HANDLES:

Four 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:

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

AE-5

ARRAYABLE LOUDSPEAKER SYSTEM

DESCRIPTION:

The AE-5 two-way, bi-amped system is the flagship of the Apogee line. This fully arrayable system functions brilliantly when used alone or as a building block for a large sophisticated system, thus making it one of the most versatile loudspeakers ever developed.

ENGINEERING DATA:

FORMAT: Bi-amped/Two-way/Electronically-coupled

DISPERSION: H: 90° x **V:** 45°

FREQUENCY RESPONSE (1M ON AXIS): 53 Hz to 17 kHz ± 3 dB

Max. SPL (@1m): 125 dB cont./131 dB peak

PTML (PEAK TRANSIENT MECHANICAL LIMIT): 144 dB

SENSITIVITY (1W @ 1m): LF: 99 dB/100 Hz to 1 kHz HF: 106 dB/1 kHz to 20kHZ

NOMINAL IMPEDANCE: 8 ohms, each driver

Max. Power Handling: LF: 300W cont./1200W peak HF: 150W cont./600W peak

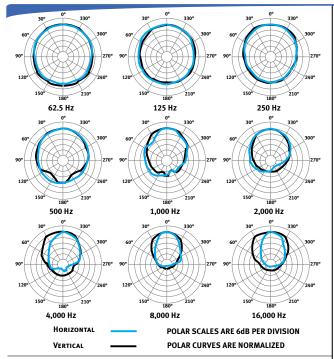
DIMENSIONS: front: 14"(356mm) W x 23"(584mm) H rear: 9.3"(236mm) W x 23"(584mm) H depth: 16.5"(419mm)

WEIGHT: 76 lbs. (34.5 kg)

APPLICATIONS:

- THEATRICAL REINFORCEMENT
- CONCERT SOUND REINFORCEMENT
- Clubs & Discos
- HOUSES OF WORSHIP
- Sports Arena Announcing





AE-5 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-500 PROCESSOR SPECIFICATIONS

FRONT PANEL CONTROLS

FRONT PANEL CONTROLS					
LEVEL:	Continuously adjustable with positive detents; linear taper controls allow precision attenuation				
Lo Cυτ:	Low frequency roll-off (-6 dB/octave @ 100 Hz) for response correction when speaker is near boundary surfaces				
VAR/CAL:	Selects between adjustable or fixed low frequency attenuation				
Recessed Trimpot:	Adjusts low frequency roll-off point, for use in arrays, from 100 Hz down to 50 Hz (continuously				
	adjustable)				
AE-6:	Switch selects between AE-5/AE-6 response curves; for use with the AE-6 stage monitor				
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 Protec	TION				
RMS LIMITER:					
	100ms integration for time protection against long-term overdrive				
PEAK LIMITER:	3 to 5ms fast-acting to help protect against very high level transients				
USER ADJUSTABLE	For control of amplifier clipping				
	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 connec- tors 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) deep; (2 EIU rack spaces)				
WEIGHT:	PVS: 12 lbs. (5.5 kg) PVD & RVD: 17 lbs. (7.8kg)				



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RVD ROAD VERSION (DUAL CHANNEL)

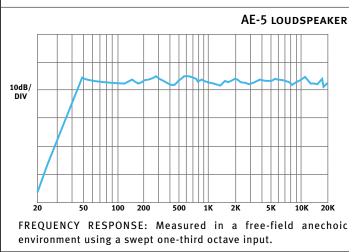


The P-500 processor is available in three versions to meet the requirements of permanent system installers and portable system operators. Each includes servo-loop protection circuits, time and frequency domain correction and a precision front-end utilizing factory-matched components for high Common Mode 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.



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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Specifications subject to change without notice. A 42-0818 / B 55-0020-01R1

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