



AE-3s2

LOUDSPEAKER SYSTEM

DESCRIPTION:

The AE-3s2 two-way, single-amped system produces high acoustic output from a small enclosure. A pair can cover large hotel ballrooms or auditoriums for speech reproduction; adding an optional subwoofer provides wide-range music reproduction.

DRIVER COMPLEMENT:

LOW FREQUENCY: One Apogee 10" (254mm) 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) horn-loaded compression driver

INPUT CONNECTORS:

Neutrik™ NL4 MP Speakon™ connectors standard; Cannon EP series and gas-tight barrier strips optional

COMPATIBLE PROCESSORS:

P-3, DPA-3, D-1 Digital Controller

HANDLES:

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

GRILLE:

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

RIGGING HARDWARE:

Two 12-gauge steel nutplates, mounted one on either side, recessed, nominally flush; accepts 3/8"-16 thread, (10mm nutplate 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/Two-way/Electronically-coupled

DISPERSION:

H: 70° x V: 45°

FREQUENCY RESPONSE (1M ON AXIS):

70 Hz to 18 kHz ± 3 dB

MAX. SPL (@1M):

121 dB cont./127 dB peak

PTML (PEAK TRANSIENT MECHANICAL LIMIT):

138 dB

SENSITIVITY (1W @ 1M):

99.5 dB/200 Hz to 4 kHz

NOMINAL IMPEDANCE:

8 ohms

MAX. POWER HANDLING:

300W cont./1200W peak

DIMENSIONS:

front: 12.5" (318mm) W x 16.25" (413mm) H

rear: 10" (254mm) W x 16.25" (413mm) H

depth: 10" (254mm)

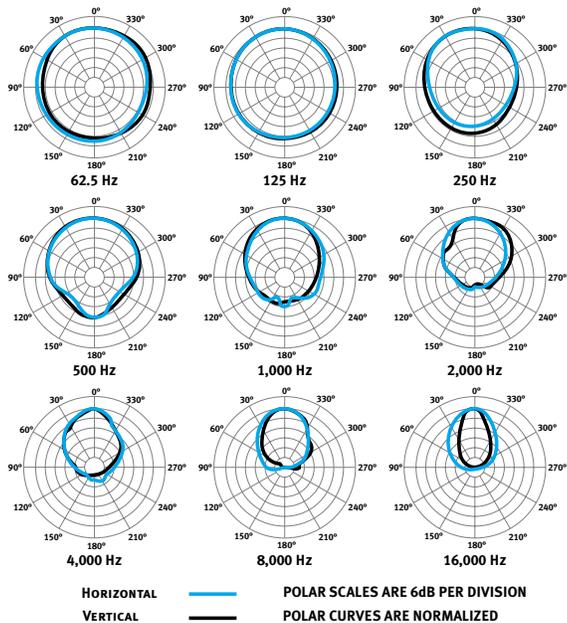
WEIGHT:

36 lbs. (16.4 kg)

APPLICATIONS:

- AUDIO/VISUAL PRESENTATIONS
- THEATRICAL PRODUCTIONS
- CUE SPEAKER FOR LIVE MIXING
- CLUBS & DISCOS (WITH OPTIONAL SUBWOOFER)

APOGEE
SOUND INTERNATIONAL, LLC



AE-3S2 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-3 PROCESSOR SPECIFICATIONS

FRONT PANEL CONTROLS

- LEVEL:** Continuously adjustable with positive detents; linear taper controls allow precision attenuation
- HI CUT:** High frequency roll-off (-6 dB/octave @ 15 kHz)
- BASS EXTEND:** Alters enclosure alignment providing + 4 dB peak @ 90 Hz
- SUB:** Engages crossover network for use with AE-SB subwoofer
- 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)



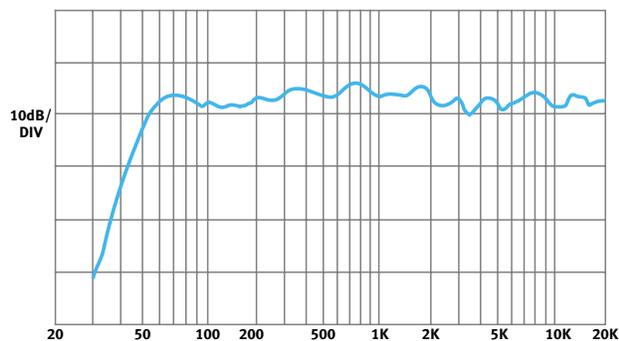
The P-3 processor is available in three versions to meet the requirements of permanent system installers and portable system operators. Each includes servo-loop protection circuits, time and frequency domain correction, and precision front-end utilizing factory-matched components for high Common Mode 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-3S2 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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