



# 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  $\pm$  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)

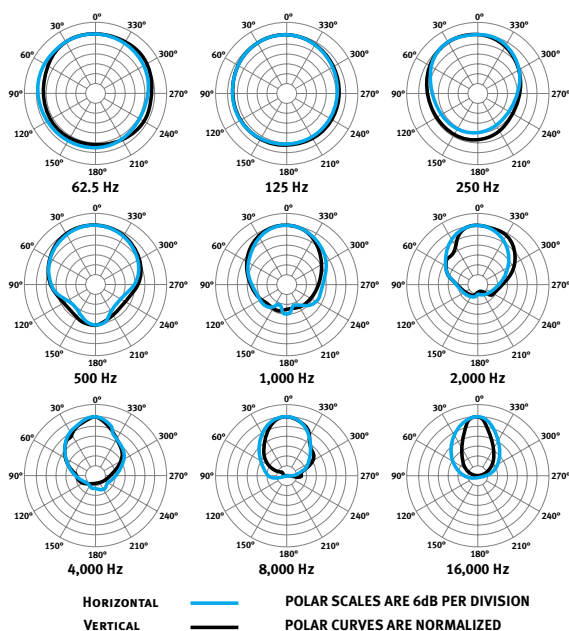
#### WEIGHT:

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

<b>LEVEL:</b>	Continuously adjustable with positive detents; linear taper controls allow precision attenuation
<b>HI CUT:</b>	High frequency roll-off (-6 dB/octave @ 15 kHz)
<b>BASS EXTEND:</b>	Alters enclosure alignment providing + 4 dB peak @ 90 Hz
<b>SUB:</b>	Engages crossover network for use with AE-SB subwoofer
<b>PRESET:</b>	Enables rear panel PAR adjustments for calibration of the protection circuitry to the amplifier's dynamic headroom characteristics
<b>LOCKOUT SWITCH:</b>	Freezes the selected state of the other functions to avoid tampering
<b>RV ONLY:</b>	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
<b>PV ONLY:</b>	Rear panel barrier strip for pin 1 ground lift

### SYSTEM PROTECTION

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

### DIMENSIONS

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

## PVS FOR PERMANENT INSTALLATIONS (SINGLE-CHANNEL)



## PVD FOR PERMANENT INSTALLATIONS (DUAL-CHANNEL)



## RVD ROAD VERSION (DUAL-CHANNEL)



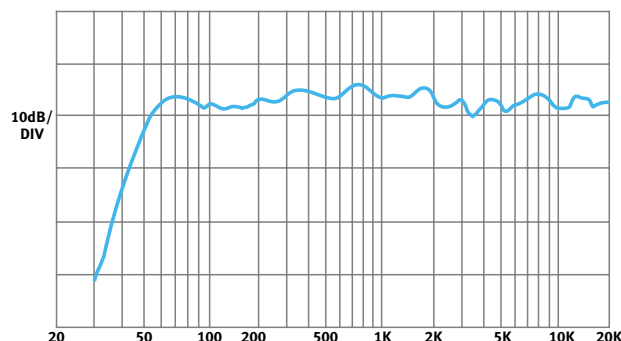
The P-3 processor is available in three versions to meet the requirements of permanent system installers and portable system operators. Each includes servo-loop protection circuits, time and frequency domain correction, and precision front-end utilizing factory-matched components for high Common Mode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