



# ALA-3 s2

## ACOUSTIC LINEAR ARRAY LOUDSPEAKER SYSTEM

### DESCRIPTION:

The ALA-3 is the most compact model in the ALA-Series. Its' clarity, power, and precise directivity provide superb results, particularly in challenging acoustical environments.

### 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:** Dual Apogee 1"(25mm) compression drivers treated with Ferrofluid® for greater power handling capability, lower distortion, and control of short-term impedance rise

### INPUT CONNECTORS:

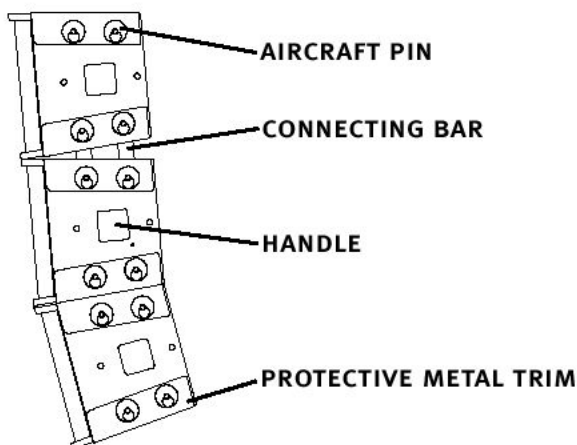
Neutrik™ NL4MP Speakon™ connectors standard; Cannon AP series and gas-tight barrier strips optional

### COMPATIBLE PROCESSORS:

PLA-3 Analog Processor, D-1 Digital Controller

### RIGGING HARDWARE:

Internal formed steel channels accept fully encapsulated steel joining bars, secured by aircraft-grade quick-release pins; all rigging parts are recessed



Apogee's unique rigging system makes assembly quick and easy. Enclosures are joined together by choosing the proper length connecting bars to achieve either a flat-pack formation or a tight-pack formation. The bars are secured in place with aircraft grade retention pins.

### ENGINEERING DATA:

#### FORMAT:

Bi-amped/Two-way/Electronically-coupled

#### DISPERSION:

ALA-3: H: 60° x V: 10°

ALA-3W: H: 90° x V: 10°

#### FREQUENCY RESPONSE (1M ON AXIS):

65 Hz to 17.5 kHz ± 3 dB

#### MAX. SPL (@1M):

127 dB cont./133 dB peak

#### PTML (PEAK TRANSIENT MECHANICAL LIMIT):

144 dB

#### SENSITIVITY (1W @ 1M):

LF: 99 dB HF: 110 dB

#### NOMINAL IMPEDANCE:

LF: 4 ohms HF: 4 ohms

#### MAX. POWER HANDLING:

LF: 600W cont./2400W peak

HF: 150W cont./600W peak

#### DIMENSIONS:

front: 35"(889mm) W x 14.5"(368mm) H

rear: 29.3"(745mm) W x 12.3"(313mm) H

depth: 13"(330mm)

#### WEIGHT:

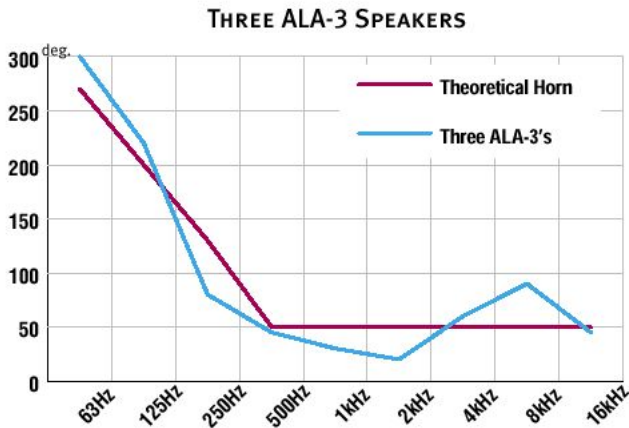
95 lbs. (43 kg) without rigging bars

### APPLICATIONS:

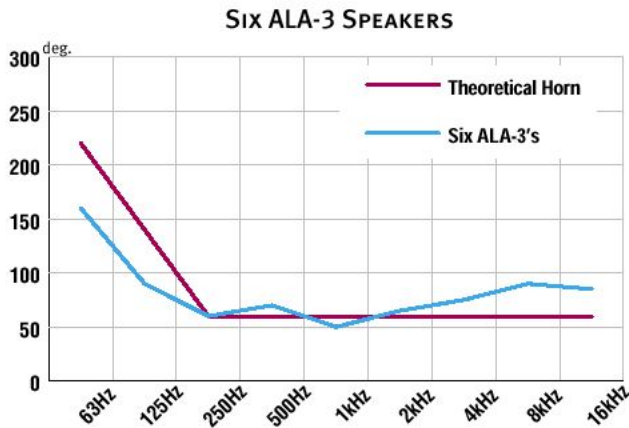
- THEATERS
- HOTEL BALLROOMS
- CONVENTION CENTERS
- TOURING

**APOGEE**  
SOUND INTERNATIONAL, LLC

The graph displayed below depicts the vertical beam width of an array of three ALA-3's compared the vertical beam width of a theoretically perfect horn. The vertical dimension of the perfect horn, at 42 inches, is equal to the vertical dimension of the three ALA-3's.



The graph displayed below depicts the vertical beam width of an array of six ALA-3's compared to the vertical beam width of a theoretically perfect horn. The 84 inch vertical dimension of the perfect horn is equal to the vertical dimension of the six ALA-3's.



In both graphs, it can readily be seen that the Linear Array exhibits far better control than that of the horn, particularly in the lower frequencies. As more enclosures are added, the pattern control extends to lower and lower frequencies, while the directivity continues to increase.

\* Note: If such a horn were to be built, its' excessive depth would render it impractical to transport.

**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.

## PLA-3 PROCESSOR SPECIFICATIONS

### FRONT PANEL CONTROLS

- LEVEL:** Continuously adjustable with positive detents; linear taper controls allow precision attenuation
- Lo CUT:** Low Frequency roll-off (-6 dB/octave @ 100Hz)
- VAR/CAL:** Selects between adjustable or fixed low frequency attenuation
- PRESET:** Enables rear panel PAR adjustments for calibration of the protection circuitry to the amplifier's dynamic headroom characteristics
- LOCK-OUT SWITCH:** Freezes the selected state of the other function switches 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)



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