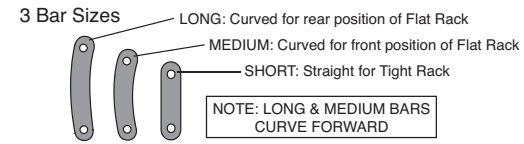
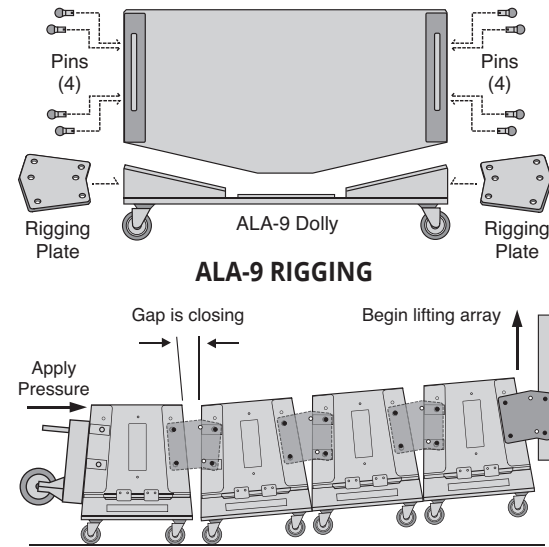
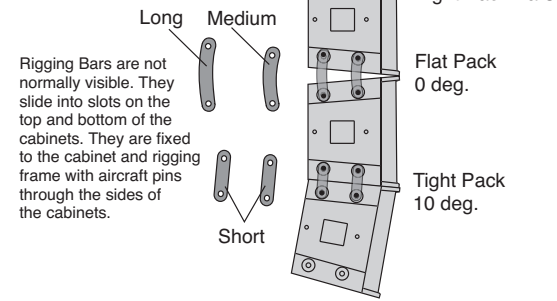


## Apogee ALA-3, ALA-5, and ALA-9 Loudspeaker Rigging Components

Apogee Linear Array loudspeakers use a simple and effective rigging system that is both quick and easy to assemble. The enclosures are joined together with various lengths of connecting bars to achieve the desired angular relationship—either a flat-pack or a tight-pack formation. The bars are secured in place by aircraft grade retention pins. The configurations can be altered in seconds, without any special skills or equipment. The rigging system is equally effective for stacking enclosures on ground supports when augmented with optional outrigger bars.



### ALA-3 & ALA-5 RIGGING



## ALA Series

### LINEAR ARRAY SPEAKERS

Apogee's ALA-Series Loudspeakers bring a new experience to sound reinforcement. Vertical pattern control is like nothing you've ever experienced; horizontal patterns are available in 60 degree and 90 degree wide formats, depending on the model. The result is greater clarity, articulation, and coherence, with phenomenal freedom from feedback.

In many cases, an ALA system can eliminate or reduce the need for delay speakers, and/or critical placement of microphones to achieve adequate gain levels. Apogee's ALA Series will transform your most troublesome shows and installations into "another job well done."

Apogee Sound's award-winning Linear Array loudspeakers differ significantly from conventional sound systems. ALA models allow you to achieve unprecedented directional control and phenomenal off-axis rejection. Capable of precisely focusing the sound where it's needed, ALA Series loudspeakers are especially effective in difficult acoustic environments but equally potent in outdoor use. Each model, coupled with the ease of their unique rigging systems, brings Linear Array Technology to a new level of versatility and effectiveness.

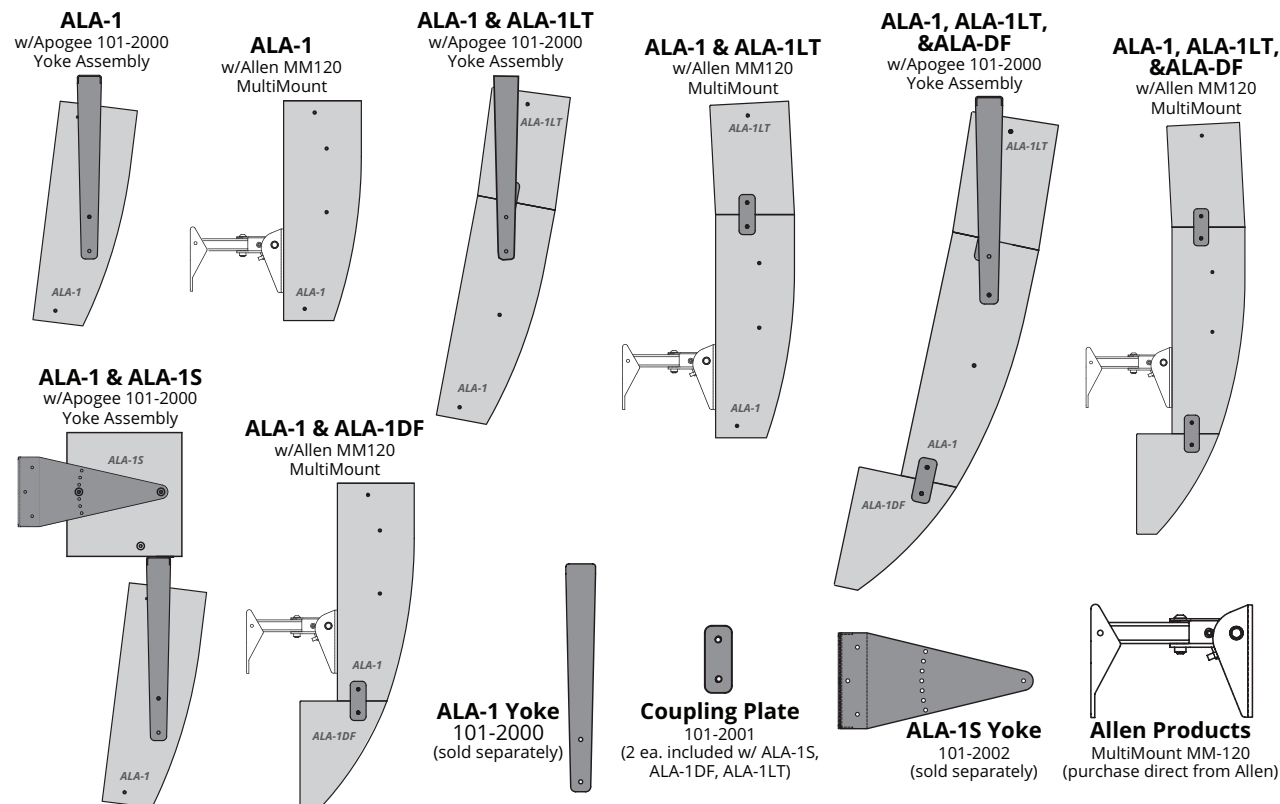
#### Why a Linear Array?

A properly designed linear array can have enormous benefits in many applications, especially in problematic venues. The Apogee Linear Array Series is an intelligent and practical implementation of both the line array principle and the doublet principle. Each ALA model behaves similarly, but is scaled in size to perform optimally in a specific range of applications. A Linear Array behaves quite differently from a conventional loudspeaker in that each enclosure is really a modular component of a complete system. In the ALA-1, each unique module is designed to perform a specific function. In the other ALA models, identical modules are used in multiples in order to obtain the desired power and coverage needed for larger venues.

The primary benefits of the linear array are the extremely narrow vertical coverage angle of each module and the seamless acoustic transition between multiple modules. Low frequency pattern control is obtained by the "line array effect" which occurs when multiple units are used together.

## Apogee ALA-1 Series Loudspeaker Configurations/Rigging Components

The ALA-1 Series Linear Array System can be mounted in a variety of positions and configurations (see below examples, side views). The flexibility of the system allows the user to set up the exact sound solution desired to fit specific needs. Using Apogee supplied Coupling Plates, speaker elements of the ALA-1 system can be assembled and, using either an Apogee Yoke or other vendor's equipment, mounted to fit neatly into nearly any environment.



# ALA-3 | Acoustic Linear Array Loudspeaker

The **ALA-3** is the most compact model of the ALA Series. Intended for applications that require clarity, power, and precise directivity, especially in the vocal range, the ALA-3 is ideally suited for theaters, hotel ball-rooms, and houses of worship. Multiple ALA-3 loudspeakers, combined in tandem with subwoofers, will comprise a formidable system.



## ENGINEERING DATA

**Format:**  
Bi-amped/Two-way Line Array/  
Electronically-Coupled

**Dispersion:**  
ALA-3: Horiz.: 60° x Vert.: 10°  
ALA-3W: Horiz.: 90° x Vert.: 10°

**Frequency Response (1m on axis):**  
65 Hz to 17.5 kHz (+/- 3 dB)

**Sensitivity:**  
HF: 102 dB LF: 110 dB

**Max. SPL (@1m):**  
130 dB cont./136 dB peak

**Nominal Impedance:**  
LF: 4 ohms HF: 4 ohms

**Max. Power Handling:**  
LF: 600W cont./2400W peak  
HF: 150W cont./600W peak

**Driver Complement:**  
Dual 10" Cone Type; Dual Horn-Loaded, Fluid Cooled 2.5" VC, 1" Exit Compression Type

**Rigging Hardware:**  
Rigging Bars (included)

**Processor Model:**  
Apogee Model DLX24

**Dimensions:**  
**front:** 35"(889mm) W x 14.5"(368mm) H  
**rear:** 29-1/3"(745mm) W x 12-1/3"(313mm) H  
**depth:** 13"(330mm) D  
**weight:** 95 lb. (43 kg)

# ALA-5 | Acoustic Linear Array Loudspeaker

The **ALA-5** is a modestly sized and easily handled loudspeaker system. Eminently versatile, it provides a very wide frequency response and enough power output for concerts, musical theatre, industrial settings, theme parks, and many more related applications. The ALA-5 features very low distortion, and very high directivity to meet the most demanding applications of any professional large scale



## ENGINEERING DATA

**Format:**  
Bi-amped/Two-way Line Array/  
Electronically-Coupled

**Dispersion:**  
ALA-5: Horiz.: 45° x Vert.: 10°  
ALA-5W: Horiz.: 90° x Vert.: 10°

**Frequency Response (1m on axis):**  
50 Hz to 17.5 kHz (+/- 3 dB)

**Sensitivity:**  
HF: 101 dB LF: 110 dB

**Max. SPL (@1m):**  
132 dB cont./138 dB peak

**Nominal Impedance:**  
LF: 4 ohms HF: 4 ohms

**Max. Power Handling:**  
LF: 1200W cont./4800W peak  
HF: 300W cont./1200W peak

**Driver Complement:**  
Dual 15" Cone Type; Dual Horn-Loaded, Fluid Cooled 2" VC, 1" Exit Compression Type

**Rigging Hardware:**  
Rigging Bars (included)

**Processor Model:**  
Apogee Model DLX24

**Dimensions:**  
**front:** 43.3"(1100mm) W x 18.5"(468mm) H  
**rear:** 36.5"(928mm) W x 15.75"(400mm) H  
**depth:** 15.5"(393mm) D  
**weight:** 141 lb. (64 kg)

# ALA-9 | Acoustic Linear Array Loudspeaker

The tri-amped **ALA-9** is the largest in the ALA Series family of loudspeakers. Its wide dynamic range makes it ideally suited for applications that may require extremely high SPL capability such as rock concerts, sporting events, and outdoor pageantry. You will find the ALA-9 loudspeakers installed in some of the most prestigious arenas and stadiums throughout the world.



## ENGINEERING DATA

**Format:**  
Tri-amped/Three-way Line Array/  
Electronically-Coupled

**Dispersion:**  
ALA-9W: Horiz.: 90° x Vert.: 10°

**Frequency Response (1m on axis):**  
45 Hz to 17.5 kHz (+/- 3 dB)

**Sensitivity:**  
LF:100 dB MF:108 dB HF:112 dB

**Max. SPL (@1m):**  
136 dB cont./142 dB peak

**Nominal Impedance:**  
LF: 8 ohms x 2 MF: 4 ohms

**Max. Power Handling:**  
LF: 1200W cont./4800W peak  
MF: 600W cont./2400W peak  
HF: 450W cont./1800W peak

**Driver Complement:**  
Dual 15" Cone Type, Dual 10" Cone Type, Three Horn-Loaded, Fluid Cooled 4" VC, 2" Exit Compression Type

**Rigging Hardware:**  
Rigging Bars/Plates (included)

**Processor Model:**  
Apogee Model DLX24

**Dimensions:**  
**front:** 47"(1194mm) W x 24"(610mm) H  
**rear:** 47"(1194mm) W x 20.125"(517mm) H  
**depth:** 22.75"(577mm) D  
**weight:** 255 lb. (116 kg)

# ALA-1 Series | Acoustic Linear Array Loudspeaker System

The **ALA-1 Series** is designed to provide extremely high fidelity, controlled pattern, and uniform coverage in small- and medium-sized venues. This easy to use system takes the difficulty out of designing and installing with line arrays.

The main array, **ALA-1**, incorporates four metal-alloy woofer cone drivers featuring the pioneering voice-coil guidance system by NEAR, utilizing a unique Ferrofluid in the magnet gap.

The Long-Throw module, **ALA-1LT**, increases the array length by 50%, focusing this extra energy to augment and extend the performance of the ALA-1 for longer distances. Both models (ALA-1 and ALA-1LT) also use horn-loaded high frequency metal dome drivers for added clarity and detail in the upper ranges, without the harshness of traditional high-frequency units.

The Down-Fill module, **ALA-1DF**, increases vertical coverage below the main array greatly improving articulation in front row nearfield listening areas, often eliminating the need for stage front fill speakers.

When the application requires high-output low-frequency energy, the **ALA-1S** Subwoofer is a perfect partner to the rest of the ALA system. A neodymium driven 12-inch woofer provides high output and extended bass for music and video productions.

Its unique mounting bracket allows the full ALA-1 Line Array to be suspended and tilted. Combined with the other ALA modules, the full system represents the most cost-effective way to achieve a true professional-quality system with unmatched realism.



## ALA-1 SERIES COMPONENTS



### ALA-1 Loudspeaker

#### ENGINEERING DATA

**Format:**  
Passive/Two-way Line Array

**Coverage Angles:**  
Horizontal: 130°  
Vertical: Graduated 10° up, 35° down

**Frequency Response (1m on axis):**  
64 Hz to 18 kHz ± 3 dB

**Sensitivity (1W @ 1m):**  
94 dB

**Max. SPL (@1m):**  
121 dB cont./127 dB peak

**Nominal Impedance:**  
8-ohms

**Max. Power Handling (cont./peak):**  
500 W cont./2000 W peak

**Input Connectors:**  
Barrier Strip, #8 Screw Type

**Driver Complement:**  
(4) 6.5" metal-alloy cone drivers, (12) 1" horn-loaded metal diaphragm drivers

**Rigging Hardware:**  
1101-2000 Yoke (sold separately), Allen Products MM-120

**Options/Accessories:**  
DLX24 Digital Controller, Stand Fitting for Yoke (140-05)

**Dimensions:**  
**height:** 27.625"(702mm) H  
**width:** 14.125"(359mm) W  
**depth:** Top-9.875"(251mm) D  
Bottom-6.125"(155mm) D  
**weight:** 39 lb. (17.7kg)



### ALA-1LT Long-Throw Loudspeaker

#### ENGINEERING DATA

**Format:**  
Passive/Two-way Line Array

**Coverage Angles:**  
Horizontal: 130°  
Vertical: Graduated 15° up, 35° down

**Frequency Response (1m on axis):**  
64 Hz to 18 kHz ± 3 dB

**Sensitivity (1W @ 1m):**  
95 dB

**Max. SPL (@1m):**  
123 dB cont./129 dB peak

**Nominal Impedance:**  
4-ohms

**Max. Power Handling (cont./peak):**  
750 W cont./3000 W peak

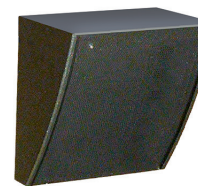
**Input Connectors:**  
Barrier Strip, #8 Screw Type

**Driver Complement:**  
(2) 6.5" metal-alloy cone drivers, (6) 1" horn-loaded metal diaphragm drivers

**Rigging Hardware:**  
101-2001 Coupling Plates (two units included w/ALA-1LT)

**Options/Accessories:**  
DLX24 Digital Controller

**Dimensions:**  
**height:** 14.125"(359mm) H  
**width:** 14.125"(359mm) W  
**depth:** 9.875"(251mm) D  
**weight:** 24 lb. (10.9 kg)



### ALA-1DF Down-Fill Loudspeaker

#### ENGINEERING DATA

**Format:**  
Passive/Line Array

**Coverage Angles:**  
Horizontal: 130°  
Vertical: Graduated 15° up, 50° down

**Max. SPL (@1m):**  
119 dB cont./128 dB peak when used w/ALA-1

**Input Connectors:**  
Barrier Strip, #8 Screw Type

**Driver Complement:**  
(6) 1" horn-loaded metal diaphragm drivers

**Rigging Hardware:**  
101-2001 Coupling Plates (two units included w/ALA-1DF)

**Options/Accessories:**  
DLX24 Digital Controller

**Dimensions:**  
**height:** 13.5"(343mm) H  
**width:** 14.125"(359mm) W  
**depth:** Top- 11"(279mm) D  
Bottom- 2.75"(70mm) D  
**weight:** 14 lb. (6.4 kg)

**Dimensions:**  
**height:** 13.5"(343mm) H  
**width:** 14.125"(359mm) W  
**depth:** Top- 11"(279mm) D  
Bottom- 2.75"(70mm) D  
**weight:** 14 lb. (6.4 kg)



### ALA-1S Subwoofer

#### ENGINEERING DATA

**Format:**  
Dual-Vented, Single Amp, Electronically Coupled

**Frequency Response (1m on axis):**  
40 Hz to 140 kHz ± 3 dB

**Sensitivity (1W @ 1m):**  
97 dB

**Max. SPL (@1m):**  
122 dB cont./128 dB peak

**Nominal Impedance:**  
8-ohms

**Max. Power Handling (cont./peak):**  
300 W cont./1200 W peak

**Input Connectors:**  
Barrier Strip, #8 Screw Type

**Driver Complement:**  
(1) 12" Weatherproof Cone Woofer w/Neodymium Magnet Structures

**Rigging Hardware:**  
101-2000 Yoke (sold separately), 101-2001 Coupling Plates included w/ALA-1S

**Options/Accessories:**  
DLX24 Digital Controller,

**Dimensions:**  
**height:** 17.875"(454mm) H  
**width:** 14.125"(359mm) W  
**depth:** 16.675"(4221 mm) D  
**weight:** 33 lb. (15.8 kg)