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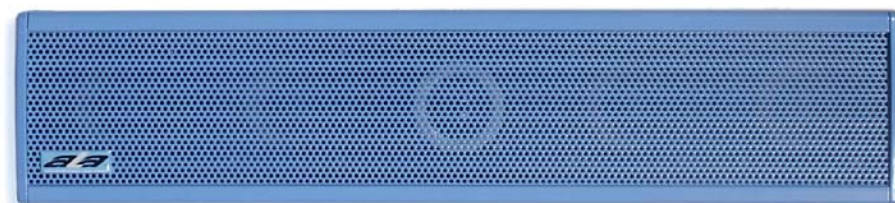
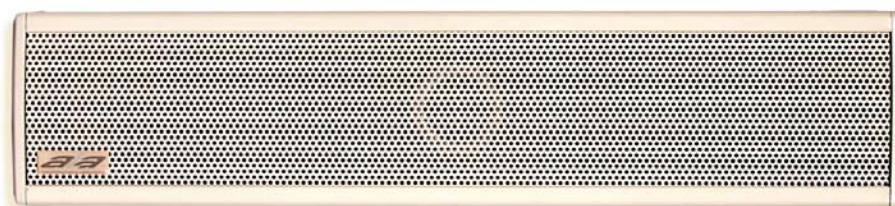
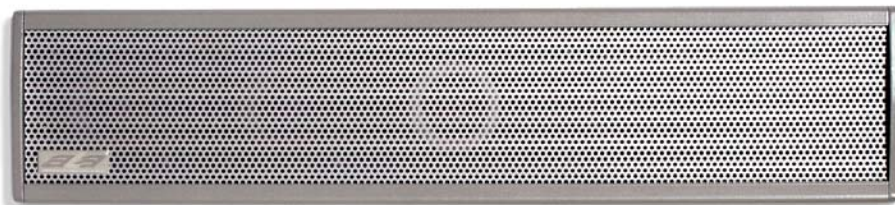
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# ALA Series

## Architectural Line Array Loudspeaker Systems

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## acoustic technologies

The Acoustic Technologies ALA Series (Architectural Line Array Series) is a specialty loudspeaker system providing ready solutions for a wide range of sound reinforcement projects. The complete ALA range has been created for any application where critical speaker placement and pattern control is essential, including outdoor venues.

The Architectural Line Array is a high fidelity sound reproduction system (120Hz–20kHz) reproducing audio with extreme clarity and accuracy. The ALA Series finds ready acceptance in areas where studio quality sound is essential. The ALA Series takes full advantage of the characteristic line array vertical dispersion pattern. Increasing the array length **decreases** the vertical dispersion of the system, allowing the design of systems providing maximum intelligibility in acoustically challenging environments.

The range of products is extensive with 2, 4, 8, 12, 16, 24, and 32 element systems readily available. In addition the ALA02+T and ALA04+T cabinets feature soft dome tweeters, extending the response well beyond 20kHz. The ALA-FS range incorporates Frequency & Amplitude Shading techniques along with a proprietary digital signal processing system designed in conjunction with renowned system designer Peter Patrick. An active development program ensures on-going state of the art products.

The ALA loudspeaker system components make use of many new production materials including weatherproof PPM cones, neodymium magnet assemblies, perforated aluminium mesh grille and an aluminium extruded chassis which minimises weight and corrosion issues. The transducers are magnetically shielded. There are over 70 decor matched powdercoat colours, allowing the ALA Series to compliment any decor styling.

Typical applications include Shopping Malls, Airports, Transport Terminals, Schools, Bars and Restaurants, Houses of Worship, Theatres, Sports Halls and Complexes, Retail Stores, Residential, Parks and Zoos.

See our Web Site for additional ALA Series Information.

## ALA Series

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#### FEATURES

- **Line Array Dispersion and Pattern Control**
- **High Intelligibility In Difficult Acoustic Environments**
- **High Quality Audio Reproduction**
- **Many Decor Matched Powdercoat Colours**

# SPECIFICATIONS

<b>SERIES</b>	Frequency Response Sensitivity Horizontal Dispersion Vertical Dispersion Cabinet Material Grille Material Cabinet & Grille Finish Finish Colours Connectors Dimensions	120Hz - 18kHz $\pm$ 3dB 86dB @ 1 watt, 1 metre 150° Decreases with Array Length to less than 10° Aluminium Extrusion with Cast End Caps Perforated Aluminium Mesh Powdercoat. Over 70 available - contact Factory for colours. Screw Terminals Height determined by Array Size. 106mm[Width] x 73mm[Depth] without mountings 106mm[Width] x 110mm[Depth] with mountings
<b>ALA02</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	2x 91mm Fullrange Transducer 4 $\Omega$ or 16 $\Omega$ 60 Watts Program 104dB @ 1metre 198mm 1.0kg
<b>ALA02T</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	2x 91mm Transducer + 1x Soft Dome Tweeter 4 $\Omega$ or 16 $\Omega$ 60 Watts Program 104dB @ 1metre 291mm 1.5kg
<b>ALA04</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	4x 91mm Fullrange Transducer 8 $\Omega$ or 32 $\Omega$ 120 Watts Program 107dB @ 1metre 385mm 1.7kg
<b>ALA04T</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	4x 91mm Transducer + 1x Soft Dome Tweeter 16 $\Omega$ 120 Watts Program 107dB @ 1metre 478mm 2.0kg
<b>ALA08</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	8x 91mm Fullrange Transducer 4 $\Omega$ , 16 $\Omega$ or 64 $\Omega$ 240 Watts Program 110dB @ 1metre 760mm 3.0kg
<b>ALA12</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	12x 91mm Fullrange Transducer 3 $\Omega$ , 6 $\Omega$ , 12 $\Omega$ or 24 $\Omega$ 360 Watts Program 112dB @ 1metre 1,134mm 4.4kg
<b>ALA16</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	16x 91mm Fullrange Transducer 8 $\Omega$ or 32 $\Omega$ 480 Watts Program 113dB @ 1metre 1,508mm 5.8kg
<b>ALA24</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	24x 91mm Fullrange Transducer 8 $\Omega$ , 5.3 $\Omega$ , 12 $\Omega$ , 21.3 $\Omega$ or 48 $\Omega$ 760 Watts Program 115dB @ 1metre 2,257mm 8.5kg
<b>ALA32</b>	Transducer Complement Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	32x 91mm Fullrange Transducer 4 $\Omega$ , 16 $\Omega$ , 64 $\Omega$ 960 Watts Program 116dB @ 1metre 3,006mm 11.2kg
<b>ALA24FS</b>	Fullrange Transducers Low Freq. Transducers Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	12x 91mm Fullrange Transducer 12x 91mm Fullrange Transducer 6 $\Omega$ (Fullrange) + 6 $\Omega$ (Low Freq.) 360 Watts + 360 Watts Program 115dB @ 1metre 3,370mm 10.7kg
<b>ALA32FS</b>	Fullrange Transducers Low Freq. Transducers Nominal Impedance Maximum Program Input Maximum Program SPL Height Weight	16x 91mm Fullrange Transducer 16x 91mm Fullrange Transducer 8 $\Omega$ (Fullrange) + 8 $\Omega$ (Low Freq.) 480 Watts + 480 Watts Program 116dB @ 1metre 4,306mm 14.2kg

The ALA24-FS and ALA32FS utilize variable driver spacing and multi-channel wiring to implement frequency and amplitude shading. Use of the ALA-226FS Digital System Management Processor or fully configurable DSP Engine is required with this loudspeaker cabinet.

ALA Series enclosures are constructed using a custom architectural grade aluminium extrusion. The transducers are protected by a rugged expanded aluminium grille.

Acoustic Technologies provides a comprehensive 3 Year Parts and Labour Warranty for all ALA Series enclosures.

Sensitivity, Maximum Power and SPL measurements are conducted in accordance with the AES 24 Hour Pink Noise Standard.

Acoustic Technologies reserve the right to alter or amend ALA Series enclosures, without prior warning in the interests of product improvement.

# ALA Series

## APPLICATIONS

- Shopping Malls
- Airports
- Schools
- Bars & Restaurants
- Houses of Worship
- Sporting Venues
- Theme Parks
- Retail Stores
- Residential
- Theatres
- Convention Centres
- Zoos
- Transport Terminals



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