

BLACKBIRD[®]

TLA508 LINE ARRAY SYSTEM ELEMENT



The Acoustic Technologies TLA508 Line Array Loudspeaker System is an innovative 2-way design, featuring two high output 8" Neodymium transducers to reproduce the low frequency and mid-band information. This arrangement offers superb low frequency performance whilst maintaining a phase coherent output in the mid-band.

The High Frequency domain is handled by a 1.4" exit compression driver coupled to an Isophasic Diffraction Aperture offering horizontal High Frequency dispersions of 60°, 90° and 150° in symmetrical or asymmetrical configurations. Vertical dispersion is determined by the length and curvature of the array.

The proprietary Blackbird Flying Hardware System is an integral part of the design allowing vertical arrays of up to 16 cabinets to be easily suspended. Inter-cabinet angles are adjustable in 1° increments, from 0° to 10°, with the pivot point located at the front baffle to maintain the integrity of the High Frequency Aperture.

The flying system is designed so that all parts are captive to the cabinet frame ensuring no parts are lost in transit. The fly-header bar may be inverted for ground stack applications.

The extensively braced cabinet is constructed entirely from premium grade, void free Birch Ply and is fitted with a rugged perforated steel grille to protect the transducers. The cabinet is finished in black AcoustiCoate elastomer and fitted with dual NL4 Speakon connectors.

The TLA508 Blackbird Line Array System is ideal for compact touring systems, outdoor music festivals and sporting events, corporate presentations and a wide range of in-house sound reinforcement applications including houses of worship, theatres and showrooms.

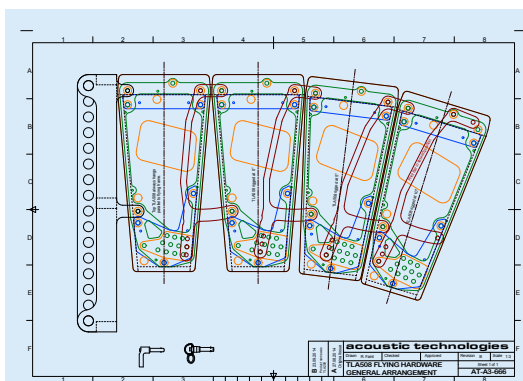


Key Features

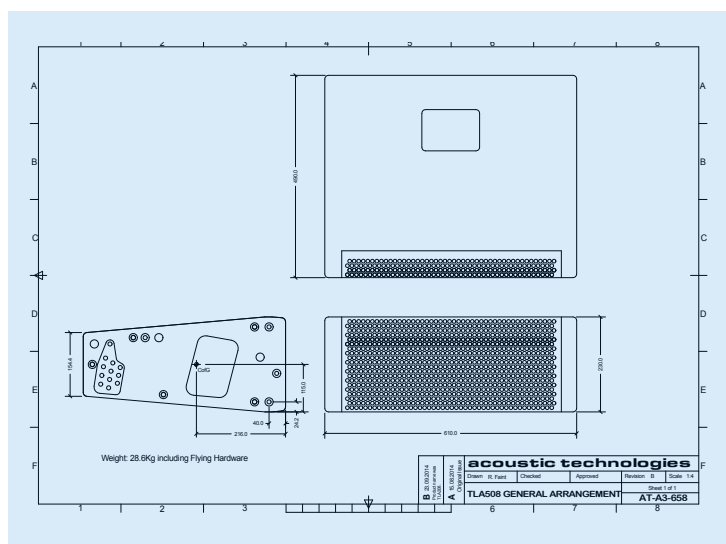
- True Coherent Line Array Performance
- Flyable, Arrayable & Ground Stacked
- Fully Integrated Flying Hardware
- Compact Design
- Adjustable Horizontal Dispersion
- 3 Year Warranty

Overview

- Dimensions: 610mm (W) x 230mm (H) x 490mm (D)
- Weight: 28.6kg (including flying hardware)
- Finish: AcoustiCoate Black Elastomer Finish
- Transducers: 2 x 8" Low / Midrange Transducer
1 x 1.4" H.F. Compression Driver



Flying Hardware General Arrangement above and TLA508 General Arrangement at right



Specifications

Transducer Complement	2 x 8" Low / Midrange Transducer 1 x 1.4" H.F. Compression Driver
Frequency Response	Low / Midrange 60 Hz - 6 kHz ± 3 dB High 500 Hz - 20kHz ± 3 dB
Sensitivity	Low / Midrange 97 dB @ 1 watt, 1 metre High 109 dB @ 1 watt, 1 metre
Power Handling	Low / Midrange 1400 Watts Program High 150 Watts Program
Maximum SPL Flat Array (Calculated)	1 Cabinet 127 dB @ 1 metre 2 Cabinets 133 dB @ 1 metre 4 Cabinets 139 dB @ 1 metre
Nominal Impedance	Low / Midrange 16 Ohms High 16 Ohms
High Frequency Dispersion	User installed HF wave guides to provide 60°, 90°, or 150° Horizontal Dispersion. Single cabinet Vertical Dispersion <10° Arrayed system vertical dispersion determined by array size.
Curved Array Cabinet Angle	Maximum 10° between adjacent cabinets.
Physical Size	606mm(W) x 230mm(H) x 490mm(D)
Net Weight	28.6 Kg
Connectors	2 x Speakon NL4MP Connectors
Cabinet Finish	AcoustiCoate Black Elastomer Finish
Grille Finish	Black Powder Coat Paint Finish
Flying Hardware	Type TLA508 Flying Hardware System Load Rating 3x TLA508B + 16x TLA508 Safety Factor Greater than 10 (Confirmed by destructive testing)
Top Flying Frame	Type TFF508 Flying Frame Application Ground Stacked or Flown System Weight 15Kg Load Rating 3x TLA508B + 16x TLA508 Safety Factor Greater than 10 (Confirmed by destructive testing)

APPLICATIONS

- Live Music Presentations
- Dance Clubs
- Outdoor Sporting
- Events
- Houses of Worship
- Corporate Presentations
- Concert Sound
- Festivals
- Public Events
- Live Theatre
- Compact Touring Systems



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