

TLA312

BLACKBIRD Line Array Loudspeaker System



acoustic technologies

The TLA312 Blackbird Line Array Loudspeaker is a highly refined compact three way system. Low Frequencies are reproduced with an extended range 12" transducer. The Mid Frequency system utilises two high efficiency 6.5" devices. The all important High Frequencies are handled by an ISOPHASIC H.F. Aperture providing superb response and precise pattern control. Horizontal dispersion is user adjustable, offering 60°, 90°, 120° or 150° options, including asymmetric horizontal dispersion patterns. Vertical Dispersion is controlled by array size. All transducers feature neodymium motors providing high performance with reduced weight.

The proprietary Blackbird Flying Hardware system is an integral cabinet component and is supplied as standard. Inter cabinet angles are easily and accurately adjusted in 0.5° increments, from 0° to 5°, with the pivot point located at the cabinet front to maintain the integrity of the H.F. aperture. The flying system is designed so that all are parts are captive to the cabinet frame with nothing that can become lost in transit. The flying frame is suited to either flown or ground stack applications.

Acoustic Technologies Line Array Prediction software enables highly accurate prediction of multi cabinet array configurations and SPL coverage prior to flying the system.

The cabinets are finished in black AcoustiCoate polymer with powder coated grilles and are fitted with dual NL8 Speakon connectors with loop thru connections for Sub Bass provided.

The TLA312 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.

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FEATURES

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

TLA312 Blackbird Line Array EXCELLENCE IN AUDIO

SPECIFICATIONS

Transducer Complement		1 x 12" Low Transducer 2 x 6.5" Mid Transducer 3 x 1" H.F. Compression Driver
Frequency Response (No system processing)	Low Mid High	50 Hz - 3.5 kHz \pm 3 dB 250 Hz - 5.5 kHz \pm 3 dB 600 Hz - 15 kHz \pm 3 dB
Sensitivity (No system processing)	Low Mid High	95 dB @ 1 watt, 1 metre 100 dB @ 1 watt, 1 metre 99 dB @ 1 watt, 1 metre
Maximum Input Continuous	Low Mid High	600 Watts RMS 240 Watts RMS 150 Watts RMS
Maximum Input Peak Program	Low Mid High	2400 Watts Program 960 Watts Program 500 Watts Program
Maximum SPL Peak Program Flat Array (Calculated)	1 Cabinet 2 Cabinets 4 Cabinets	130 dB @ 1 metre 136 dB @ 1 metre 142 dB @ 1 metre
Nominal Impedance	Low Mid High	8 Ohms 16 Ohms 16 Ohms
High Frequency Dispersion (Refer to the website for CLF Plots showing 1/3 Octave Data)	Horizontal Vertical	User installed H.F. wave guides to provide 60°, 90°, 120° or 150°. Single cabinet less than 10° Arrayed system determined by array size.
Curved Array Cabinet Angle		Maximum 5° between adjacent cabinets.
Recommended Crossover Frequencies and Filter Slopes	Low - Mid Mid - High Slopes	500 Hz - 2.5 kHz 900 Hz - 4.0 kHz 24 dB or 48dB per Octave Linkwitz Riley
Physical Size		692mm(W) x 375mm(H) x 530mm(D) (Excluding Flying Hardware) 774mm(W) x 375mm(H) x 530mm(D) (Including Flying Hardware)
Net Weight		38 Kg (Excluding Flying Hardware) 47 Kg (Including Flying Hardware)
Connectors		2 x NL8MP Speakon Connectors
Cabinet Finish		AcoustiCoate Black Elastomer Finish.
Grille Finish		Black Powder Coat Paint Finish.
Flying Hardware		BLACKBIRD TLA312 Flying Hardware System, load rated for a 16 cabinet array per vertical drop, supplied as standard. Option Integrated aiming laser fitted to each cabinet frame.
Top Flying Frame	Dimensions Weight Application Load Rating Safety Factor	770mm(W) x 145mm(H) x 915mm(D) 37Kg Can be used for flown or ground stack systems. 16 cabinet array per vertical drop. Greater than 10. (Confirmed by destructive testing)

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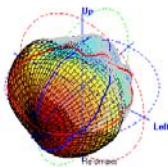
APPLICATIONS

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



EASE & COMMON LOUDSPEAKER FORMAT DATA

Acoustic Technologies has had extensive data measurements performed on the Blackbird Line Array by an independent testing facility. The full EASE and Common Loudspeaker Format (CLF) Data Files, Factory Recommended Loudspeaker Management System settings, high resolution photo's plus additional information and feature articles are readily available from our internet site. www.atprofessional.com.au/cabinets/blackbird.html



The TLA312 enclosure is constructed of high quality void free Finnish Birch Ply.

The transducers are protected by a rugged expanded steel grille. Acoustically transparent PVC foam is bonded to the mesh providing a durable, visually appealing finish.

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 the TLA312 Blackbird Line Array Loudspeaker without prior warning in the interests of product improvement.

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