

W8LS Line Array Subwoofer

Dedicated high performance sub-bass system

features

- ▶ Dual long excursion 18" (460mm) direct radiator design
- ▶ High power - 140dB continuous, 146dB peak (single unit half-space)
- ▶ Extended response 32Hz – 180Hz \pm 3dB
- ▶ Useable response to 28Hz (-10dB)
- ▶ Compatible with W8L Longbow Line Array
- ▶ Fast, integral rigging system with variable splay angles from 0 to 7.5° to match W8L Longbow column curvatures
- ▶ Standard W8L grid may be used for flying or ground stacking

applications

- ▶ Dedicated flown sub-bass for W8L Longbow Line Array
- ▶ Ground stacked sub-bass for W8L Longbow Line Array
- ▶ Under-stage sub-bass
- ▶ Special effects sub-bass



The W8LS is a dedicated high performance sub-bass system designed to augment the low frequency output of the W8L Longbow in large scale applications where the sub-bass enclosures must be flown. The physical dimensions of the W8LS are identical to the W8L Longbow and it is equipped with the same proprietary rigging system, allowing flown arrays to be constructed rapidly and safely.

It features twin, 1000 watt 18" (460mm) drive units with magnet structure and suspensions engineered for maximum linear excursion. The drivers are reflex loaded by ports at either end of the enclosure and substantial internal bracing is employed to minimise energy absorption by the cabinet walls at the very high pressures generated within the enclosure itself.

The W8LS is constructed from multi-laminate birch ply and fitted with generously sized handles and a wheelboard for transportation. To resist ingress of water, the driver cones are treated with a waterproof lacquer and the perforated steel grille is backed with Declon foam.

The proprietary rigging system of the W8LS is quick to deploy and allows a wide range of W8L Longbow array curvatures to be matched. Intercabinet angles from 0° to 7.5° are set by a rotating splay bar at the rear of the enclosure. All cabinet rigging hardware is integral and remains captive in transit.

Whilst primarily designed for flown applications, the W8LS may also be ground-stacked on a standard W8L grid, arrayed and strapped on-end or deployed under the stage apron if required.

W8LS Line Array Subwoofers are designed to be powered by Martin Audio MA18K power amplifiers.

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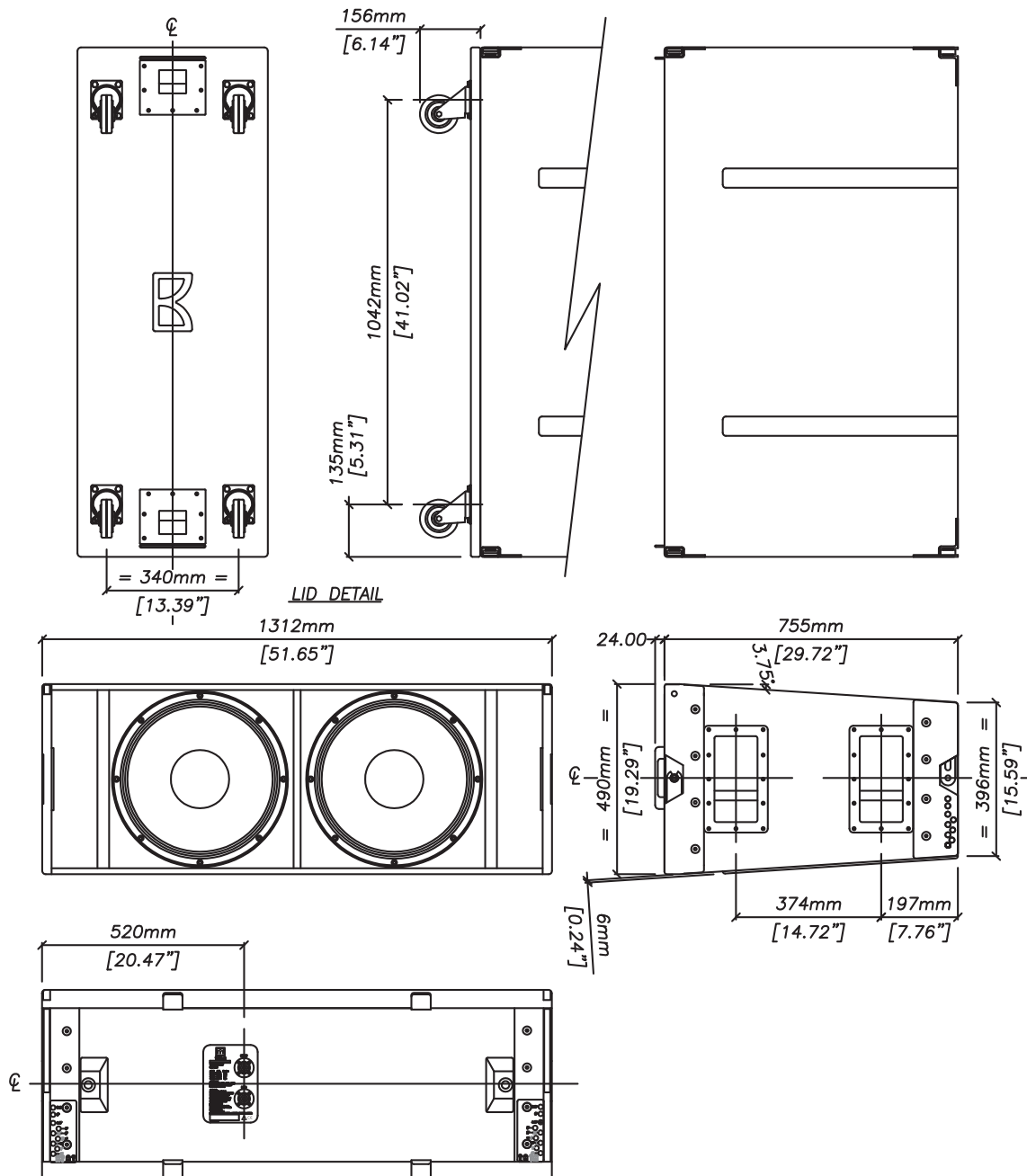


touring and theatre

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overall dimensions



W8LS

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technical specifications

TYPE	Reflex loaded sub-bass
FREQUENCY RESPONSE (1)	32Hz-180Hz \pm 3dB -10dB @ 28Hz
DRIVERS	2 x 18" (460mm)/4" (100mm) voice coil, ultra-long excursion, water resistant cone, LF drivers
RATED POWER (2)	2000W AES, 8000 peak
RECOMMENDED AMPLIFIER	MA18K
SENSITIVITY (6,3)	101dB (open space), 107dB (half space)
MAXIMUM SPL (calculated @ 1m)	134dB continuous, 140dB peak (open space) 140dB continuous, 146dB peak (half space)
NOMINAL IMPEDANCE	8 ohms per driver
CROSSOVER	70Hz-180Hz active via DX1.5 or DX2 controller
ENCLOSURE	Vertical trapezoid with 3.75° wall angle, multi-laminate birch ply construction
FINISH	Textured black or grey paint
PROTECTIVE GRILLE	Black or grey perforated steel
CONNECTORS	2 x Neutrik NL8
DIMENSIONS (inc. wheelboard)	(W) 1314mm x (H) 490mm x (D) 755mm (91.1mm) (W) 51.7ins x (H) 19.3ins x (D) 29.7ins (35.9ins)
WEIGHT (ex. wheelboard)	108kg (238lbs)

accessories

HTK172	Flying pin
HAM09001	W8L stacking rod

Notes

- (1) Measured on-axis in half space at 2 metres, then referred to 1 metre.
- (2) AES Standard ANSI S4.26-1984.
- (3) Measured in half space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (4) Measured in half space at 2 metres using band limited pink noise, then referred to 1 metre.
- (5) Measured on-axis in open (4π) space at 2 metres, then referred to 1 metre.
- (6) Measured in open (4π) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
- (7) Measured in open (4π) space at 2 metres using band limited pink noise, then referred to 1 metre.

Trade Descriptions Act

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

architectural and engineering specifications

The loudspeaker system shall be of the horizontally formatted sub-bass type for flown or ground-stack applications. The loudspeaker system shall consist of two 18" (460mm) direct radiating reflex loaded long excursion low frequency transducers. The transducer cones shall be treated with a waterproof lacquer and protected by a perforated steel grille backed with Declon foam. The enclosure shall be constructed of heavily braced multi-laminate plywood with all flying hardware integral and captive. The loudspeaker shall be operated with a separate dedicated electronic controller.

Performance of the loudspeaker system with its electronic controller shall meet or exceed the following criteria:

Frequency response measured 1 metre on axis shall be 32Hz-180Hz \pm 3dB.

Power handling shall be 2000W AES, 8000W peak.

Rated impedance shall be 8 ohms per driver.

Maximum SPL measured at 1 metre on axis shall be 140dB continuous, 140dB peak (half space).

Dimensions (W) 1314mm x (H) 490mm x (D) 755mm (51.7ins x 19.3ins x 29.7ins).

Weight 108kg (238lbs).

The loudspeaker system shall be the Martin Audio W8LS.

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