

LA SERIES

- Three way line source system
- Two 10 inch Bass drivers
One 8 inch Midrange driver
Two 1 inch compression neodymium planar wave drivers
- SHM™ Collinear arrangement
- 100° horizontal coverage and 10° to 20° vertical coverage
- Dispersion controlled from 250Hz
- Designed for high performance fixed installation and touring
- OEM factory presets for approved digital processors

TECHNOLOGY

Lotusline LA series are based on the latest electro acoustics developments and include new **SHM™** proprietary technology.

SHM™ (Single Horn loaded Midrange) improve dramatically midrange bandwidth and efficiency by avoiding multiple components dispersion and using collinear mid and hi frequency horns layout.

First line array uses mid drivers on plane baffle. Small improvements in efficiency have been made by using compression load midrange directly in the front common waveguide, but creating irregularities in frequency response, and dispersion in characteristics due to the multiplication of components. Actually, coaxial midrange equipped with rear standard HF driver is used in common acoustic chamber imposing a long path to high frequency waves. Lotusline Line Array uses the shortest possible design by positioning the toroidal HF drivers in front of the midrange driver.

SHM™ technology reduces the total harmonic distortion both in high frequencies by minimizing the length of waveguides and in low mid by increasing the radiating surface of the driver.

Lotusline Line Array are high efficiency systems, thanks to the entirely horn loaded design, and the use of the best modern European custom build transducers. Combined with the true line source design of Lotusline Line Array, high sound pressure levels can be obtained in long far field with the best tonal balance on the whole system coverage.

APPLICATIONS

Lotusline LA20 are line array modules designed for variable curvature vertical tangent array as well as horizontal constant curvature horizontal tangent array.

Designed to build medium throw line sources, the 100° horizontal coverage and 10° to 20° vertical coverage of LA20 perfectly complement LA10 line sources for downfill.

Composite arrangements of LA10 and LA20 are the best solution to cover any large audience area homogeneously.

Lotusline LA20 are completely compatible with Lotusline subwoofers series and can be stacked directly on anyone.

Due to its exceptional sound quality, its power capacity, and its fast and easy rigging, Lotusline Line Array series are intended for daily use in touring companies, as well as for permanent installation in theatres, congress centres or arenas.

FEATURES	Low Section	Mid Section	High Section
Frequency range with processor (± 3 dB)	65 Hz to 400 Hz	200 Hz to 1500 Hz	1200 Hz to 19 kHz
Sensitivity@1W/1m,f>80Hz ¹	105 dB SPL	106 dB SPL	113 dB SPL
Maximum continuous level at 1m,f>80Hz ²	132 dB SPL	129 dB SPL	135 dB SPL
Peak level at 1m,f>65Hz	138 dB SPL	135 dB SPL	141 dB SPL
Nominal impedance	2 x 16 Ohms	16 Ohms	32 Ohms
Nominal directivity @ -6dB ³	100°		
Unit nominal vertical coverage @ -6dB ³	10°--20° (9°, 11°, 15°, 20°, inter-enclosure angles)		

COMPONENTS

Transducers	2 x 10" weatherproof loudspeakers	1 x 8" weatherproof loudspeaker	2 x 1" HF toroidal drivers
Coil diameter	77 mm	45 mm	44.4 mm
Type of load	SIC™ Bass reflex	SHM™ horn	SHM™ horn

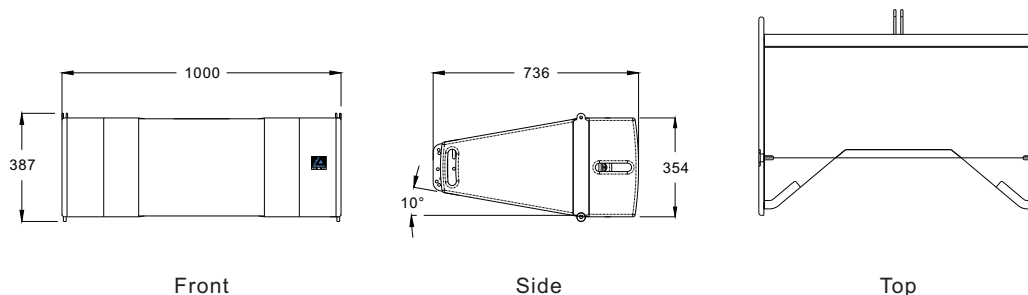
POWER

Recommended amps into 8 Ohms	300 to 800W	200 to 500W	100 to 300W
Peak	2000W	800W	900W
AES	500W	200W	160W

CONSTRUCTION AND CHARACTERISTICS

Cabinet	18mm birch plywood with internal reinforcements
Crossover	Factory presets
Finish	Black, impact resistant structured and water paint coating
Protection grill	Acoustically transparent perforated steel, 1.8mm thick
Front face	Black, woven, heavy duty fabric
Connectors	2 x Neutrik Speakon NL8MP
Handles	4 wood integrated handles
Rigging	Proprietary 3 points compression system
Dimensions (H x W x D)	387 x 1000 x 736 mm
Net unit weight	57.6 kg 127.0 lb
Gross weight, packed	61.9 kg 136.5 lb

CAD Drawings



1. Sensitivity is the average SPL measured over the component's rated bandwidth. LA series sensitivity are given for a minimum line of four units.
2. Power rating displays the long term AES power handling capacity using pink noise with a 6 dB crest factor over the components rated bandwidth
3. Directivity is averaged over the frequency range.
4. The SPEAKON connectors are wired as follow : LO1-hot pin 1+, cold pin 1-, LO2-hot pin 2+, cold pin 2-, MID-hot pin 3+, cold pin 3-, HIGH-hot pin 4+, cold pin 4-.

LIMITED WARRANTY

Lotusline loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the option of Lotusline, the defective item will be repaired/replaced with no charge for materials/labor. The item is to be adequately packaged and dispatched, pre-paid, to a Lotusline authorized distributor/service center. Unauthorized repair shall void the warranty. This Lotusline warranty does not cover cosmetics or finish and does not apply to any items which in Lotusline's opinion have failed due to user abuse, accidents, modifications or any type of misuse.



LOTUSLINE ACOUSTICS