

LA5A

- Ultra compact self-powered line array system
- No need of external amplifier racks
- Two BMS 4" Neodymium Planar Wave Driver (Patent Pending)
- Four BMS 5" neodymium ultra low distortion woofers
- Wide horizontal coverage of 110°
- Vertical curving 0° to 10° in 1° steps
- 500W RMS class D amplifier for the low and a 180W RMS mosfet amplifier for the high frequency
- High SPL, superb quality sound
- Optical Limiters for State-of-the-art protection
- Integrated rigging system for flown or ground-stacked arrays

The LA5A is an ultra compact, two-way self-powered line array system, designed for a wide range of venues where high fidelity sound and outstanding intelligibility is required. The system contains four BMS 5-inch neodymium ultra low distortion cone speakers and two BMS 4510ND, 4" neodymium planar wave drivers. The use of high efficiency class D amplifier for the low and mosfet amp for the high frequency ensure small size, reduced weight and superb sonic performance. The integrated control electronic includes optical limiters for each channel, 24 dB phase-aligned asymmetrical crossovers, all pass filters, EQ's etc to provide a perfect match between amplifiers and loudspeakers for optimum acoustic output and reliability. The systems are designed to be used in multiples with a minimal configuration of two. Up to 20 units can be used to achieve extreme high levels needed for larger venues.

An optional LA5A-SUB self powered subwoofer can be added for increased low frequency response. The integrated rigging system allows quick and easy flying or ground stacking. Arrays may be build straight or curved in various angular to obtain the desired vertical coverage. The fact that the LA5A is ultra compact and light reduces manpower and transport. When coupled with the LA5A-SUB the LA5A gives audio companies a flexible, plug and play system for an wide range of applications from the smallest venue to a concert-level sound.



APPLICATIONS:

- Arenas
- Convention Centers
- Churches
- Theatres
- Music Pavilions
- Auditoriums



TECHNICAL SPECIFICATIONS (single enclosure):

Type:	2-way self-powered full range system
Application:	Line Array
Frequency response:	60 Hz - 19 kHz (-3 dB)
Maximum output peak:	124 dB (long term)
Maximum output peak:	130 dB
Dispersion:	110° x 10°
Amplifiers low range:	Class D
Power output (RMS):	500 W / 4 Ohm
Peak output current:	> 45 A
THD+N:	< 0.02 % @ 500 W, 1 kHz, 4 Ohm
Amplifier high range:	MOSFET 180 W, 500 W Burst
THD+N:	< 0.02 %
Components:	
Low frequency:	4 x BMS 5" neodymium woofers
	1.5" (38 mm) voice coil, 125 W (AES) each
High frequency:	2x BMS 4" neodymium planar wave drivers
	1.75" (44.4 mm) voice coil, 80 W (AES) each
Crossover:	1.3 kHz / 24 dB Active
High pass filter:	44 Hz / 18 dB
Input:	balanced
Connectors:	1x female XLR/TRS Jack; 1x male XLR loop (Pin2+; 3-; 1 Gnd)
Impedance:	10 kOhm
Input sensitivity:	0.775 V (RMS)
AC Connector:	2x Neutrick™ PowerCon
AC Power requirement:	1000 W peak, 600 W continuous (max)
LED Indicators:	Power on, Signal, 0-dB, LF limit, HF limit, Overload
Gain:	-9 dB, +3 dB
Enclosure shape:	Horizontal trapezoid 5°
Suspension:	included
Enclosure material:	Baltic birch plywood
Finish:	Black textured paint
Dimensions:	480 x 270 x 420 mm (incl. Hardware)
Net weight:	26 kg

System Performance:

Array	Frequency Response (-3 dB)	Max. Coverage (-6 dB points)	Maximum Peak Output
1 Enclosure	60 - 20000 Hz	110° x 10°	130 dB
4 Enclosures	58 - 20000 Hz	110° x (10° - 40°)	142 dB
8 Enclosures	57 - 20000 Hz	110° x (10° - 80°)	148 dB