

LA88 DUAL 8" LINE ARRAY

- Compact, High Fidelity, High Output
- Ultra-Wide Horizontal Coverage
- Superior Projection of High Frequencies
- Excellent Bass Performance
- Light Weight, Easy Set Up
- 3000 W Powersoft Class D Amp



The LA88 is a small-format line-array with big features and big performance. Delivering a remarkable combination of flat frequency response, high output, broad coverage and long throw from a very compact, lightweight and visually attractive cabinet, the LA88 offers an extraordinarily powerful and versatile tool for the pro who needs high-quality sound with outstanding audience coverage.

Self-powered by a 3000W amplifier, the only thing small about the LA88 is its size. Putting a 3000W amplifier in a small-format line-array cabinet may seem excessive but there is no substitute for dynamic power when it comes to live production. When used with a subwoofer system, the LA88s are high-passed above the subwoofer, thus a tremendous amount of dynamic power is available for mid-range and high frequency output. A hang of 12-LA88s incorporates 36,000 W, provides vertical directivity to 60Hz, runs on two 20A circuits and weighs only 700 lbs.

The LA88 can run on mains voltage from 90 to 250V, and is compatible with all power supplies worldwide. Up to six cabinets can be powered on one 20A 120V circuit (1/8 power) or for more demanding applications, one 20A 208V circuit (1/4 power). Complete system packages including power distribution equipment are available.

Available with IP-65 rated power and signal connectors for use outdoors in inclement weather. The LA88 heat sink and power connectors are available watertight so that once the cabinets are flown there is no need for concern about rain causing damage to powered speakers.

Capable of extremely high output, with a full and rich presence, the LA88 provides remarkable bass output for a speaker of its size. LA88's frequency response is +-3dB from 50 to 18,000 Hz. The 8" drivers feature a low resonance frequency. This gives the LA88 the voice and character of a much larger enclosure.

The LA88 cabinet is extremely compact, at only 25.25" wide x 19.5" deep and 9.75" high. With the rigging pins inserted in the flyware, the overall width increases to 28.5". Ready to fly, each cabinet weighs just 55 pounds. A complete rig of 4 cabinets with bumper bar weighs under 250 lbs. Ultra-wide horizontal coverage of 140 degrees helps to provide consistent,

intelligible coverage to audience areas that are to the far left and right of the hangs, filling the center and outer areas extraordinarily well. Using a narrow aperture wave-guide and then rapidly transitioning the output to a flat fascia accomplishes this extremely wide coverage. To further enhance off-axis performance, the entire high frequency wave-guide assembly and fascia is mounted forward of the loudspeaker baffle. This minimizes edge reflections and delivers consistent and extended horizontal dispersion.

High-frequency device vertical coupling is optimized to deliver line-source behavior higher up the frequency spectrum than most line array systems.

The vertical spacing of the isophasic high-frequency radiating surfaces on the LA88 is only $\frac{3}{4}$ " and, even more remarkable, that distance is maintained box-to-box, which allows them to couple and efficiently project high frequencies up to 10kHz, nearly double the HF coupling frequency of most line-arrays. This allows the LA88's HF drivers to perform more efficiently, using less power, with lower distortion, improved clarity and greater reliability.

Midrange horizontal dispersion is maximized using a proprietary multi-aperture summing technology. The technology compression loads the 8" drivers to improve midrange sensitivity and divides the summed acoustical output over multiple small apertures. The apertures minimize acoustic lobe center spacing on the vertical plane, which enhances inter-box coupling to provide improved line-source behavior and extended midrange projection. Horizontally, the apertures also narrow the radiating area of the midrange frequencies, which increases the horizontal dispersion of the midrange.

BASSBOSS subwoofers are available to fly above or support below the LA88s to extend system performance to below 30Hz. The LA88's remarkable low frequency output can be combined with subwoofers for increased LF output level and extended LF response. Several options are available including 15", 18" and 21" versions. The flyware-equipped subwoofers can be used as ground-supports for arrays of up to 6 LA88 boxes.

The cabinets are made in the USA from premium Baltic Birch. Touring versions are finished in a waterproof black textured coating. Installation versions are available for indoors or in white or black. A fully weatherized version is available for permanent installations outdoors. The outdoor versions have IP rated passive input wiring and their amplifiers are provided in rack-mount chassis.

ACOUSTICAL

Loudspeaker Description:	Small Format Dual 8" Line Array
Frequency Response (± 3 dB):	50 - 19,000 Hz (Full-Range) 100-19,000 Hz (Satellite Mode)
Maximum Sustained Output:	129 dB
Max SPL (Peak)*	138 dB
Nominal Dispersion ($^{\circ}$ H x $^{\circ}$ V):	140 x 8

ELECTRICAL

Amplification:	3000 W - Two Channel Powersoft Class D Digital Amplifier
DSP:	Integrated Comprehensive DSP including High Pass, Low Pass, Phase Alignment, EQ and Limiting
Electrical Connectors:	Neutrik PowerCON in and pass-through
Voltage Operating Range:	90-250V. Auto-sensing, auto switching universal supply
Current Draw, Nominal:	3A @ 1/8 power
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M pass-through

PHYSICAL

Cabinet Construction:	15mm Baltic Birch plywood. Integrated cabinet handles
Enclosure Type:	2-way line array. Vented LF section with multi-aperture midrange loading, horn-loaded HF section
Transducers:	LF: Two 8 in. dia (200 mm) neodymium motor woofers with 2 in. (51mm) copper winding voice coil. HF: Two 1.7 in. (44mm) diaphragm compression driver on 1 in. throat isophasic wave guides
Flyware:	Integrated aluminum line array flyware, adjustable in one degree increments, with fixed front pivot point
Dimensions (HxWxD):	24 in. wide x 19 in. deep x 9.5 in. tall (front); 7 in. tall (back) without flyware; 26.25 in. wide x 11 in. tall (front) x 7 in. tall (back) x 19 in. deep with flyware
Net Weight:	55 lbs (26kg) including flyware and pins
Shipping Weight:	65 lbs (29.5kg)
Exterior Finish, Touring:	Weatherproof bonded high-pressure polyurethane
Exterior Finish, Installation:	Textured Epoxy Paint, Black or White
Exterior Finish, Weatherized:	Fiberglass underlaid UV treated bonded high-pressure polyurethane with silicone seals
Grill:	Diffraction aperture cut aluminum fascia

OPTIONAL

Array Frames (Bumper Bars):	Support frame Light for up to twelve cabinets or Heavy for up to twenty four cabinets
Case:	Heavy-duty clam-shell hard case
Wheel Dolly:	Rolling cart with 4 locking casters for transport of up to 6 cabinets, also serves as ground support bracket Includes flyware pin positions for 4-degree down-angle, straight and 4-degree up-angle deployment
Online Information:	bassboss.com/la88

**Peak output is calculated using "industry standard" techniques. These calculation methods create theoretical specifications that are inflated over what can actually be achieved. BASSBOSS real world output specifications are provided as "Maximum Sustained Output" ratings, which reflect actual measured, continuous output levels.*

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With black powdercoated flyware on optional rolling cart.