MFLA-MK3 | Dual 12" Line Array

CUT SHEET

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The MFLA-MK3 is a dual 12″ line array element featuring dual 3″ voice coil, 1.4″ throat compression drivers, a 3000W amplifier and an integrated DSP. Low current draw and light weight relative to their output capacity means you can provide intense sound with less power and fewer boxes.

The comprehensive processing ensures consistent, undistorted high-SPL operation and maximum reliability. All the processing necessary for linear frequency response and phase coherent operation are pre-programmed into the DSP, delivering exceptional dynamic resolution and detail along with precise control.

The proprietary processing programmed into the BASSBOSS MFLA-MK3 provide the ease of plug-and-play operation and very simple and easy setups. You also get the peace of mind that comes from knowing that the integrated limiters make the system capable of operating reliably at extremely high output levels.

The MFLA-MK3 cabinet features innovations in performance and practicality. The forward output of the dual 12″ woofers passes through a multi-aperture diffraction matrix that distributes mid-range energy evenly and in phase over the height of the cabinet. This matrix effectively reduces the acoustical source spacing to provide exceptional projection of mid-range frequencies. The matrix also shifts upper-midrange frequency output toward the center of the cabinet, which broadens the horizontal dispersion of the midrange frequencies.

This technology allows the MFLA-MK3 to deliver coherent midrange propagation from a symmetrical 2-way design, which not only eliminates the phase offset, (or latency,) of a 3-way system, it also allows for higher midrange SPL and lighter cabinet construction. The shorter acoustical path of this system allows the high frequency lenses to be utilized for extremely wide horizontal coverage, often even eliminating the need for front-fills.

The rear output of the woofers enters a vented enclosure that features integrated damper structures that enhance midrange clarity along with extensive bracing for minimal resonance. The vents are perpendicular to the cone movement to further improve midrange clarity, minimize cabinet frontal area and to provide for wider horizontal coverage capability, all while they do their primary duty of delivering exceptional low frequency performance. Their location also provides the secondary function of ducting cool air directly over the low-frequency driver motors for reduced thermal compression and improved reliability.

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Fixed-Point Flyware ensures absolutely consistent box-to-box alignment. The high-frequency output of an array can only remain coherent at higher frequencies if the cabinets cannot move front-to-back once the pins are inserted. The MFLA-MK3's unique precision alignment mechanism prevents movement in the direction that influences time domain alignment, front-to-back, which is critical to ensure the phase of the high-frequency signals remain coherent from box to box. This feature dramatically improves the very high-frequency propagation effectiveness of the entire array, allowing the MFLA-MK3 to deliver pristine highs at greater distances.

The MFLA-MK3 Flyware features a simultaneous compression and tension mechanism, allowing the cabinets to be flown or ground stacked using the same simple setup. The proprietary flyware design ensures there is no slack and no shifting in the box alignment once the boxes are pinned. The mechanism allows for single-handed adjustment of splay angles for ground-stacked operation or in preparation for flying.

Pre-Installed Onboard Presets

High-pass filters with included phase compensation.

Preset 1:	**60Hz Butterworth 24dB/octave high-pass filter**
Preset 2:	**60Hz Linkwitz-Riley 24dB/octave high-pass filter**
Preset 3:	**70Hz Butterworth 24dB/octave high-pass filter**
Preset 4:	**70Hz Linkwitz-Riley 24dB/octave high-pass filter**
Preset 5:	**80Hz Butterworth 24dB/octave high-pass filter**
Preset 6:	**80Hz Linkwitz-Riley 24dB/octave high-pass filter**
Preset 7:	**90Hz Butterworth 24dB/octave high-pass filter**
Preset 8:	**90Hz Linkwitz-Riley 24dB/octave high-pass filter**

Additional presets are accessible through software. See "How to Use the Presets" section for more information. Additional presets will be available for download at the software link as they are developed.

Instructions on linking to your computer for remote monitoring and control:
www.bassboss.com/software

To be notified when new presets are released register your gear at: www.bassboss.com/support

Specifications

Acoustical

Loudspeaker Description:	Horizontally Symmetrical Dual 12", Self-powered, Vented Line Array element with Pressure-Phase Distributed midrange loading and isophasic high-frequency wave guides.
Frequency Response (±3 dB):	60 – 19,000 Hz (preset dependent)
Maximum Measured SPL:	143 dB
Max calculated SPL (Peak):	146 dB
Nominal Dispersion (°H x °V):	120 x 10

Electrical

Amplification:	3200W Class D: 2400W LF, 800W HF
Processing:	Integrated comprehensive DSP with 8 local presets (Additional presets accessible via software)
Electrical Connectors, Amplifier:	Neutrik Powercon True 1 TOP in and through
Electrical Connector, Mains:	NEMA 5-15 (Edison)
Voltage Operating Range:	100-240V. Auto-sensing, auto switching universal supply
Current Draw, Nominal:	5A @120volts, 2.5A @240V (average with music program)
Display:	LEDs for Power on/ready, Signal, -12dB, -6dB, Limiter Active, Thermal, Protect and LAN Link Active. Eight LEDs indicating selected preset
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M (Direct pass-through, unprocessed)
LAN Connectors:	EtherCON RJ45 (x2)

Physical

Enclosure Type:	CNC machined 15mm multi-ply laminate with extensive bracing and dado joinery. External flyware and linking mechanism.
Transducer, LF:	2 x 12 in. diameter (300mm) Neodymium motor woofer with 3.5 in. (88mm) voice coil, waterproof cone
Transducer, HF:	2 x 1.4 in. (36mm) exit compression drivers with 3 in. (76mm) voice coils mounted to isophasic wave guides
Flyware:	Integrated line array flyware, adjustable in one degree increments from 0 to 10 degrees.
Exterior Finish:	Rugged, weatherproof, black, textured, bonded high-pressure polyurea coating, UHMWPE sliders
Grille:	Perforated, powder coated steel
Handles:	2 Integrated Handles
Dimensions (HxWxD):	16.125 in. x 40.5 in. x 20.375 in. (Including Flyware)
Net Weight:	104 lbs. (47 kg)
Shipping Weight:	110 lbs. (49.9 kg)

Optional

IP Connections:	IP-65 rated signal connections and isolated DSP
Flight Case:	Multi-box Touring Cases for up to 5 cabinets.
Array Frame (Bumper Bar):	Standard Rigging Frame with multiple lifting points
Covers:	Multi-box soft covers for up to 4 cabinets when on a rolling cart
Transport Dolly:	Ground Support Rolling Cart - provides array angle adjustment when used for ground support deployment
Online Information:	bassboss.com/mfla

Our proactive philosophy causes specifications to be subject to change whenever improvements are made.

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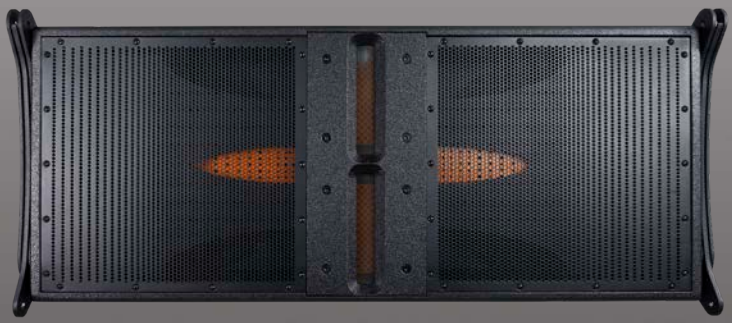

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We're here to help.

bassboss.com/support