



Specs Sheet

**DV12-MKII**  
12" Powered Top

# DV12-MKII

## 12" Powered Top

High Fidelity, High Output, High SPL ○

Ultra-Wide Horizontal Coverage ○

Broad Frequency Range, Long Throw ○

Line-Array Performance from Pairs ○

### Description:

Designed for incredible sonic clarity and true full-range performance, the DV12-MKII is simply the best single 12" top on the market.

#### New features:

- Specially-developed high-performance woofer features increased excursion and power handling capabilities with reduced distortion.
- Upgraded compression driver from a 2.5" to 3" diaphragm, featuring smoother frequency response and increased sensitivity.
- Updated cabinet tuning takes advantage of improved low-frequency performance of new woofer.
- Multiple handles have been added, making set-up even easier.

The result is even higher output, resolution, depth and detail than the original. With the MKII, the DV12 again sets the standard for the full-range compact main loudspeaker.

The DV12-MKII uses a line-array derived 1.4" throat isophasic wave guide instead of a conventional horn. The result is a combination of very wide and consistent horizontal coverage (120°) with a tight vertical pattern (20°) that extends high frequency projection farther than a conventional horn.

The lower frequencies are produced by a 12" woofer that features an ultra-light carbon-fiber impregnated cone for outstanding resolution, a cast aluminum basket for rigidity and reliability, a Neodymium magnet for light weight and high efficiency, a 4" voice coil for high power handling and a symmetrical, long-excursion suspension for accurate and extended bass response.

The amplifier can deliver output peaks of 150V, to provide amazing dynamic resolution and impact. It also has a 10,000:1 damping factor, which provides extremely tight control over the cone. The fully integrated and comprehensive digital processing ensures smooth response and reliable operation thanks to meticulous filter alignments and dual stage limiters that protect the drivers from excessive peaks, and also from thermal overload, by monitoring real power output over time. The amplifier features a large heat sink and 2 temperature-controlled fans to ensure consistent operation under even the most extreme conditions.

The DV12-MKII is the ultimate in plug and play, with universal voltage compatibility and no need for any outboard gear other than a sound source. The processing features presets that allow it to run in several configurations. The first is full-range mode, with response down to 40Hz (-3dB). The other presets allow the DV12-MKII to be integrated with various types and sizes of subwoofers. Each preset has a specific high-pass filter frequency, input sensitivity, high and low frequency limiter setting and subwoofer alignment processing.

The DV12-MKII can be combined with any BASSBOSS subwoofer because all the presets are programmed to align with all the subs. Each preset offers different advantages that suit certain applications and preferences. No matter which preset you choose, your BASSBOSS subs and DV12-MKII tops will always play in harmony.

The cabinet is assembled in the USA from premium selected 15mm Finland Birch. The design incorporates a 4-degree down-angle that ensures even distribution of high-frequency energy from front-to-back of a venue when the DV12-MKII is placed at the appropriate height on a tripod or support pole. Additional features include a 38mm (1-3/8") cast metal pole socket, eight fly points and six handles. The amplifier is recessed from the back of the cabinet to protect it in transit. A perforated steel grill protects the woofer, and its progressive perforation pattern serves to broaden midrange dispersion. The high-frequency lens and port are left clear of the grill to minimize reflections and air flow noise that could compromise sound quality.

Should you ever need more sound than can be produced by one DV12-MKII per side, its invertible array feature allows perfect summing of two speakers, which provides a big increase in output and projection without compromising the crystal clarity. To further utilize the advantages of the line-array waveguides, the DV12-MKII's are designed to stack with the HF lenses vertically aligned. This allows the high-frequency sections of two boxes to sum perfectly as they would in a line-array while the low-frequency sections sum in a column for improved low-frequency directivity and greatly increased output.

There is finally a speaker that allows two completely functional stereo systems to be combined into one without having to compromise, either when they are together, or when they are separated.

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## SPECIFICATIONS

### Acoustical

Loudspeaker Description:	Long throw, wide dispersion compact full-range speaker
Frequency Response ( $\pm 3$ dB):	40 - 19,000 Hz
Max Sustained Output (Full-Range):	120 dB SPL, 1m
Max Sustained Output (Satellite-Mode):	126 dB SPL, 1m
Max SPL (Peak)*:	134 dB
Nominal Dispersion ( $^{\circ}$ H x $^{\circ}$ V):	120 x 20

### Electrical

Amplification:	3000 Watt Two-Channel Powersoft Class D Amplifier
Processing:	Integrated comprehensive including high-pass, low-pass, parametric EQ, phase alignment and limiting
Electrical Connectors, Amplifier:	Neutrik Powercon in and through
Electrical Connector, Mains:	NEMA 5-15 (Edison)
Voltage Operating Range:	90-250V. Auto-sensing, auto switching universal supply
Current Draw, Nominal:	3.6A @ 120 volts, 2A @ 220V (typical, 1/8 max power)
Display:	LEDs for Power on/ready, Signal, Thermal and Protect. LEDs indicating selected preset
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M pass-through

### Physical

Enclosure Type:	Self-powered, bi-amplified, 2-way full-range. Direct radiating vented LF section, wave-guide-loaded HF section
Transducer, LF:	1 x 12" diameter (300 mm) neodymium motor woofer with 4" (100mm) voice coil
Transducer, HF:	1 x 1.4" throat neodymium motor compression driver with 3" (76mm) voice coil on isophasic wave guide
Cabinet Construction:	15 mm multi-ply Finland Birch plywood with internal bracing and damping. Includes 8 steel braced 10mm fly points and a 35mm pole socket
Suspension Points:	8 x 10mm internally braced threaded mounting points
Dimensions (HxWxD):	24.5" x 14.5" x 17" (62.23 cm x 36.83 cm x 43.18 cm)
Net Weight:	63 lbs. (28 kg)
Shipping Weight:	68 lbs. (30 kg)
Exterior Finish:	Rugged, weatherproof, black textured, bonded high-pressure polyurethane coating
Grill:	Perforated, powder coated steel

### Optional

Stacking Bracket:	Adjustable bracket set, mounts second cabinet inverted for near-perfect summed response and line-array style performance. Provides splay-angle adjustment from 0 to 8 degrees.
Flying Bracket:	Two DV12s can be arrayed together and flown from the DV12 array flying bracket.
Shoulder Eye Bolts:	For use when flying cabinets vertically
Side-pull anchors:	For use when flying cabinets connected by stacking bracket to Truss
Cover:	Heavy-duty padded nylon transport cover with velcro closure
Loop-through PowerCON:	Power jumper for chaining power between stacked cabinets
Online Information:	<a href="http://bassboss.com/dv12">bassboss.com/dv12</a>

*\*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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DV12-MKII  
Invertable Array

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