



USER MANUAL



ATTUNED12

Single 12" 2-Way
Powered Loudspeaker

Overview

The Attuned12 is a high-output, self-powered, internally processed, 2-way loudspeaker. Designed for maximum output and clarity in a compact form factor, it delivers smooth and natural sound reproduction with effortless setup and portability.

Lightweight yet powerful, the Attuned12 is perfect for users who demand high SPL without the burden of heavy gear. Its advanced amplifier and integrated DSP ensure optimal performance and sophisticated protection in any environment. Intended for use as a mid-high element paired with our subwoofers for a complete system, the Attuned12 features a compact cabinet with a rotatable horn, and includes flexible mounting options for ground-stacked, pole-mounted, or flown configurations. Weighing only 55lbs, the Attuned12 is easily handled by one person, making transport and setup quick and efficient. It features 14 M10 fly-points for flexible rigging in fixed installation and a 35mm (1-3/8 in.) cast metal pole socket.

The cabinet is built from 18mm and 15mm Birch plywood. It features an 18mm baffle and 18mm top and bottom, with 15mm sides, port walls and braces, all assembled with dado joinery. The cabinet includes 4 wooden handles. The vented cabinet houses a single high-efficiency 12 in. neodymium woofer with a 3.5 in. voice coil, combined with a high-output compression driver featuring a neodymium motor with a 3 in. voice coil and 1.4 in. exit throat on a rotatable horn. The horn provides consistent 90 x 60 degree coverage, ensuring uniform dispersion when deployed vertically or horizontally.

Power is supplied by an amplifier that can deliver output peaks of 163V, to provide amazing dynamic resolution and impact. The fully integrated and comprehensive digital processing ensures smooth response and reliable operation thanks to meticulous filter alignments and five-stage limiters that protect the drivers from excessive excursion, thermal overload and clipping. The amplifier features a large heat sink and 2 temperature-controlled fans to ensure consistent operation, even under the most extreme conditions.

The cones are waterproofed to protect them from accidental exposure to moisture such as rain or spilled beverages. Weather resistant, IP65 rated power connectors, an internally sealed input section and waterproof-treated cones are provided to allow operation where rain might be encountered.

With universal voltage operation and onboard DSP presets, the Attuned12 is truly plug-and-play—no external processing required. Multiple user-selectable presets optimize performance for different configurations, giving you maximum flexibility with minimal setup time. Each preset has a specific high-pass filter frequency and alignment filters that ensure it's output is always phase coherent with any BASSBOSS sub. No matter which preset you choose, your BASSBOSS subs and tops will always play in harmony.

The MK3 features an all-new DSP. The comprehensive suite of processing includes multiple presets, each including multiple protection systems and limiters to prevent driver overload in as many ways as possible, including thermal, excursion and clipping. There are five levels of protection that actively prevent overheating of the voice coil, minimize long-term thermal compression and limit excursion. Because they operate in 5 different modes, the limiters are sophisticated enough to have a largely unnoticeable effect on the transient response and allow the subwoofer to deliver peak output safely.

The MK3 DSP features storage capacity of up to 100 presets, eight of which can be accessed at the touch of a button with no need for a connected computer. The eight directly accessible presets are compatible with all the presets in the MK3 Top Boxes and are also compatible with previous generation tops and subs.

The Attuned12: compact, powerful, and ready for any stage.



Specifications

Acoustical

Loudspeaker Description	2-way Single 12" Self-powered vented direct-radiating full-range with rotatable 90 x 60 degree constant directivity horn
Frequency Response (±3 dB)	65 - 19,000Hz
Max Sustained Output	130 dBSPL 1m (full-space) (Tentative)
Maximum Measured Output	136 dBSPL 1m (full-space) (Tentative)
Nominal Dispersion (H° x V°)	90 x 60 (Rotatable)

Electrical

Amplification	3200 W Class D, 2 channel; 2400W LF - 800W HF
Processing	Integrated comprehensive DSP. 96kHz sampling rate with 8 pushbutton presets. All presets include high pass filters, low pass filters, phase alignment, equalization and multi-stage limiting. Storage capacity for up to 100 presets
Electrical Input Connector, Amp	Neutrik powerCON True 1 TOP IP65 rated waterproof connectors with pass-through outlet to connect additional loudspeakers. Inlet capacity limited to 15A or 1800W @ 120V total. Do not exceed the inlet capacity.
Electrical Outlet Connector, Amp	Neutrik powerCON True 1 female. Outlet capacity is limited to 10A or 1200W. Do not exceed the total capacity of the inlet connector.
Electrical Connector Mains	Standard US 3-pin grounding 120V electrical plug: NEMA 5-15 (Edison)
Voltage Operating Range	100-240V AC, 50-60Hz (Auto-sensing, auto switching universal supply)
Current Draw, Nominal	120V 4.6A (nominal); 240V 2.3A (nominal)
What's Included	Loudspeaker, Cover, 15' (5m) Power Cable, Manual, Warranty Card
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 pass-through
LAN Connectors	EtherCON RJ45 (x2) with 2-port Ethernet switch

Physical

Enclosure Type	2-way, Active, Broad Range. Direct radiating vented LF section, horn-loaded HF section
Transducer, LF	1 x 12 in. diameter (300mm) neodymium motor woofer with 3.5 in. (88mm) voice coil, waterproof cone
Transducer, HF	1 x 3 in. (76mm) diameter diaphragm compression driver with 1.4 in. (35mm) exit mounted to 90 by 60 degree constant directivity horn
Cabinet Construction	CNC machined 18 and 15mm Birch plywood with extensive bracing and dado
Suspension Points	14 x internally braced M10 threaded mounting points (4 on top, 4 on bottom, 2 on left, right, and rear)
Dimensions (HxWxD)	29.5" x 15" x 17"; 6.5" Rear (74.9 cm x 38.1 cm x 43.2 cm: 16.5 cm Rear)
Net Weight	55 lbs (24.95 kg)
Shipping Weight	55 lbs (29.48 kg)
Exterior Finish	Weatherproof bonded high-pressure polyurea, black or white
Grille	Perforated, powder-coated steel

Optional

Hardware	M10 Shoulder Eye Bolts, M10 Side-Pull anchors
GLL/Ease File	TBD
Cover	Heavy-duty padded nylon transport cover
Online Information	bassboss.com/attuned12

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

Pre-Installed Onboard Presets

High-pass and low-pass filters with included phase compensation.

Linkwitz-Riley high-pass filters:

Preset 1	65Hz Linkwitz-Riley high-pass filter
Preset 2	75Hz Linkwitz-Riley high-pass filter
Preset 3	85Hz Linkwitz-Riley high-pass filter
Preset 4	95Hz Linkwitz-Riley high-pass filter
Preset 5	105Hz Linkwitz-Riley high-pass filter
Preset 6	115Hz Linkwitz-Riley high-pass filter

Butterworth high-pass filters:

Preset 7	65Hz Butterworth high-pass filter
Preset 8	75Hz Butterworth high-pass filter
Preset 9	85Hz Butterworth high-pass filter
Preset 10	95Hz Butterworth high-pass filter
Preset 11	105Hz Butterworth high-pass filter
Preset 12	115Hz Butterworth high-pass filter

In order to achieve the flattest and smoothest frequency response, you should match the levels of your BASSBOSS subs and tops, and the low-pass filter frequency selected on the Subwoofer(s) should be closely matched to the high-pass filter frequency selected on the Top(s).

On the other hand, if you like your system to be bass-heavy, and you plan to turn your subs up louder than your tops, you may want to choose a preset on the tops with a high-pass frequency that's slightly above the frequency chosen on the subs. This will reduce the chance of an output peak in the crossover/overlap range and will allow slightly more output SPL from the tops.

IMPORTANT - Update NOW!

ControlBASS + Settings

For improved performance and stability, update your settings immediately after opening your new gear!

Major new updates are available.

Download new settings updates and the ControlBASS app at

bassboss.com/software

Instructions on using the software, linking to your computer for remote monitoring and control and updating the settings files will be provided when you sign up!

Register your gear

bassboss.com/support

For more information and setup tips on how to get the best and most out of your system check out the Knowledge BASS

help.bassboss.com



ATTUNED12

**Single 12" 2-Way
Powered Loudspeaker**



**Need more assistance?
We're here to help**

help.bassboss.com