



AT212-3K

2-Way Powered Top



Specs Sheet

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High Output and Efficient

Excellent Sound Quality

Light Weight for Easy Set-Up and Transport

Wide Coverage Rotatable Horn

Description:

The AT212-3K Attuned Top is a 2-way, self-powered, bi-amplified loudspeaker for short to medium distance coverage. Simple to use, with high output, smooth sound and natural musical character. The light weight, power and efficiency of the AT212-3K make it ideal for providers who want to deliver high output but prefer not to move heavy cabinets.

Intended for use with a subwoofer system to complete a 3-way active full-range system. The AT212-3K has a tall, slim design allows the HF horn to stand above crowds when the cabinet is stacked on subwoofers and the light weight of the cabinet makes stacking easy for one person. One-man set up of a substantial system is made easy because the AT212-3K cabinets weigh only 89 lbs.

The AT212-3K is a 2-Way active, powered and processed mid-high loudspeaker. At only 89 lbs it is particularly well suited to applications where light weight is required. One-person set-up of a substantial system is easy and quick.

The cabinet is built of 15mm Baltic Birch plywood. It features an 18mm baffle, with dado joinery, 4 steel bar handles, and a 15 degree side angle trapezoid shape. The cabinet features 5 handles and 8 fly points, with 80 x 60 degree rotatable coverage for multiple applications including ground stack and horizontal or vertical flying.

Weatherized versions are available for outdoor installations. Rack-mounted amplification and waterproof input connections along with a fiberglass underlaid finish, silicone sealed gaskets, stainless steel grill and hardware and a hydrophobic grill cloth are optional.

The cones are waterproofed to protect them from accidental exposure to moisture such as rain or spilled beverages. Waterproofed woofer cones are included in all BASSBOSS loudspeakers. Weather resistant, IP rated amplifiers are available for applications where rain might be encountered, and fully weatherized RP (Rack Powered) versions are available for outdoor installations. The optional weatherized and weather resistant loudspeakers have the same components and outstanding acoustical performance as the standard versions.

The AT212-3K cabinets can be combined in arrays of 3 or more cabinets. The horn can be rotated and the boxes packed side-by-side to form arrays that cover 90, 120, 150, 180 degrees and more.

BASSBOSS cabinets are hand-built in the USA. The cabinet is built from 18 and 15mm Baltic Birch plywood. It features an 18mm baffle, top and bottom, with 15mm sides and braces, all assembled with dado joinery and advanced, composite adhesives. The cabinet includes 4 steel bar-handles and fly points. The rotatable HF horn provides 80 x 60 degree coverage for multiple applications including ground stack and horizontal or vertical flying. A 30-degree long-throw horn is available as an option for large arrays.

Created to stand up to intense usage. The cabinet is finished in an extremely rugged, black polyurethane coating. Drivers are protected by a black powder coated, perforated steel grill, and the amp is recessed into the back of the cabinet for protection from damage in transit.

The amplifier consists of 2 channels with a total of 3,000W. The amplifier features extremely high dynamic power capacity, with 150 Volts peak output per channel, along with high damping of >10000:1 Efficient, PFC power supply and class D output topology.

Exceptional dynamic resolution and detail along with precise control. It offers low current draw and light weight relative to the output capacity.

All the processing necessary for linear frequency response and phase coherent operation are pre-programmed into the DSP. With the comprehensive processing built in, BASSBOSS loudspeakers provide the ease of plug-and-play operation and the peace of mind that comes from knowing that the multiple limiter systems make to system virtually indestructible.

The AT212-3K is a vented cabinet that features two 12" woofers and a 1.4" throat, horn-loaded compression driver. The woofers feature 4" voice coils, Neodymium magnets, cast aluminum baskets and ultra-light carbon-impregnated cones. The compression driver also features a Neodymium motor structure with a 2.5" voice coil diaphragm.

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AT212-3K 2-Way Powered Top | SPECIFICATIONS

Acoustical

Loudspeaker Description:	Full Range 2-way Active Vented, 80 x 60 degree (rotatable) coverage for multiple applications: ground stack and horizontal or vertical flying
Frequency Response (± 3 dB):	45 – 18,000 Hz
Sensitivity:	LF: 107dB; HF:107dB
Maximum Sustained Output:	136 dB
Max SPL (Peak)*	139 dB
Nominal Dispersion ($^{\circ}$ H x $^{\circ}$ V):	80 x 60, rotatable to 60 x 80

Electrical

Amplification:	3000 Watt Two Channel Powersoft Class D
Processing:	Integrated comprehensive including high-pass, low-pass, parametric EQ, phase alignment and limiting
Electrical Connectors:	Neutrik PowerCON in and through
Voltage Operating Range:	90-250V. Auto-sensing, auto-switching, PFC universal power supply
Current Draw, Nominal:	3.6A @ 120 Volts; 2A @ 220 Volts, (typical, 1/8 max power)
Signal Input Connector:	XLR-F
Signal Output Connector:	XLR-M pass-through

Physical

Cabinet Construction:	18 mm Baltic Birch plywood, 15mm braced sides, dado joinery, 4 steel bar handles, 30 degree trapezoid
Enclosure Type:	2-way, Active, Full Range. Direct radiating vented LF section, horn-loaded HF section
Transducers, LF:	2 x 12" diameter (300 mm) neodymium motor woofer with 3.5" (89 mm) voice coils, waterproof cones
Transducer, HF:	1 x 1.4" exit, 2.5" (63.5 mm) diameter voice coil compression driver mounted to an 80 by 60 degree constant directivity horn
Dimensions (HxWxD):	47.75 in. x 14.3 in. front (5.3 in. rear) x 17.75 in. (121.28 cm x 36.32 cm [13.462 cm rear] x 45.08 cm)
Net Weight:	89 lbs. (40 kg)
Shipping Weight:	99 lbs. (45 kg)
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 and stainless steel grill
Grill:	Perforated, powder-coated steel

Optional

Suspension Points:	Four x 3/8" – 16 TPI on centerline top and bottom
Flying Array Bracket:	Allows arrays of cabinets to be flown from two points
Side-pull Anchors:	For use when flying cabinets horizontally
Shoulder Eye Bolts:	For use when flying cabinets vertically
Covers:	Heavy-duty padded nylon transport covers
Weatherized Version:	Suitable for permanent outdoor installations
Online Information:	bassboss.com/at212

*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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