

BASSHORN XD FACT SHEET

The high end myth



avantgarde
ACOUSTIC

Avantgarde Acoustic BASSHORN XD

The BASSHORN XD is Avantgarde Acoustic's statement subwoofer. One that has defined the Status Quo of horn loaded subwoofer design ever since its introduction in 2003. Featuring all reference grade components, such as 12" high performance drivers, ultra-powerful Class-D amplification and DSP frequency response control, it presents a true State-of-the-Art piece of engineering and an iconic visual statement.

The solid and uniquely shaped construction, comprising sandwich-structured cabinet materials and self-supporting assembly, was widely adopted from the preceding version. Thus the BASSHORN XD seamlessly continues the proven and well established concept of the Avantgarde Acoustic subwoofer design. The sound waves generated by the 12" drivers are guided through the 55 inch long expo-spherical horn funnel and then propagated into the room. The horn mouth area of each Basshorn module is 9 ft squared. In a 6 x Basshorn configuration this translates to 54 square feet!

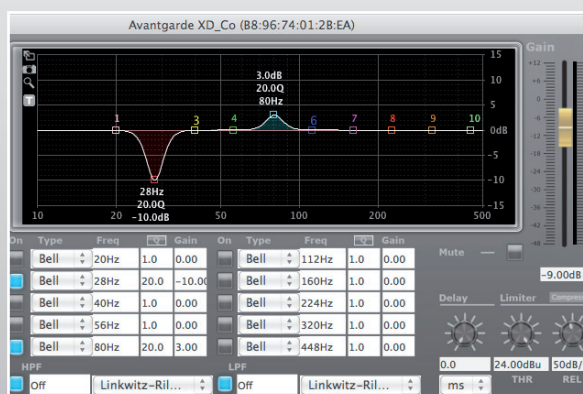
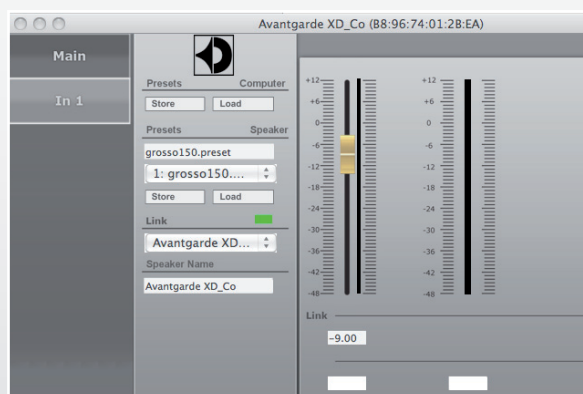
The BASSHORN XD is the ideal complementary subwoofer for the TRIO models, presenting a modular concept that is available in pairs. Depending on room size, placement and SPL requirements, most rooms will be perfectly accommodated with 1, 2 or 3 pairs, placed either between the main speakers or in adjacent corners of the room. Moreover, the modular concept allows for further upgrades by just adding another pair of BASSHORN modules.

But independent of the actual amount of BASSHORN XD modules: The BASSHORN XD will open a cornucopia of powerful, tuneful and rhythmically precise bass, presenting a sound stage of totally believable and realistic scale and "weight", and if required by the recording with an impact that can simply be described as life-like in the true sense of the word.

Due to its optimized Class-D circuitry, the incorporated XD-1000 amplifier module delivers 1000 watts per module, thus ensuring that the membranes are moving exactly according to the original signal, creating a superbly contoured bass response even with the lowest notes, while at the same time providing perfect homogeneity with coupling to the TRIO speakers' low-midrange horn.

The active crossover at the subwoofer's input now offers various new control features. Previously, only attenuators for volume and crossover frequency (towards the midrange) were available as "tailoring" features, plus a subsonic filter. With the XD models, a DSP controller receives the signals and offers a multitude of sound relevant adjustments, including a programmable 10-band equalizer, e.g. to adapt the bass response to room acoustics. Still operating the subwoofer by a single SELECT/ENTER control knob is a simple exercise.

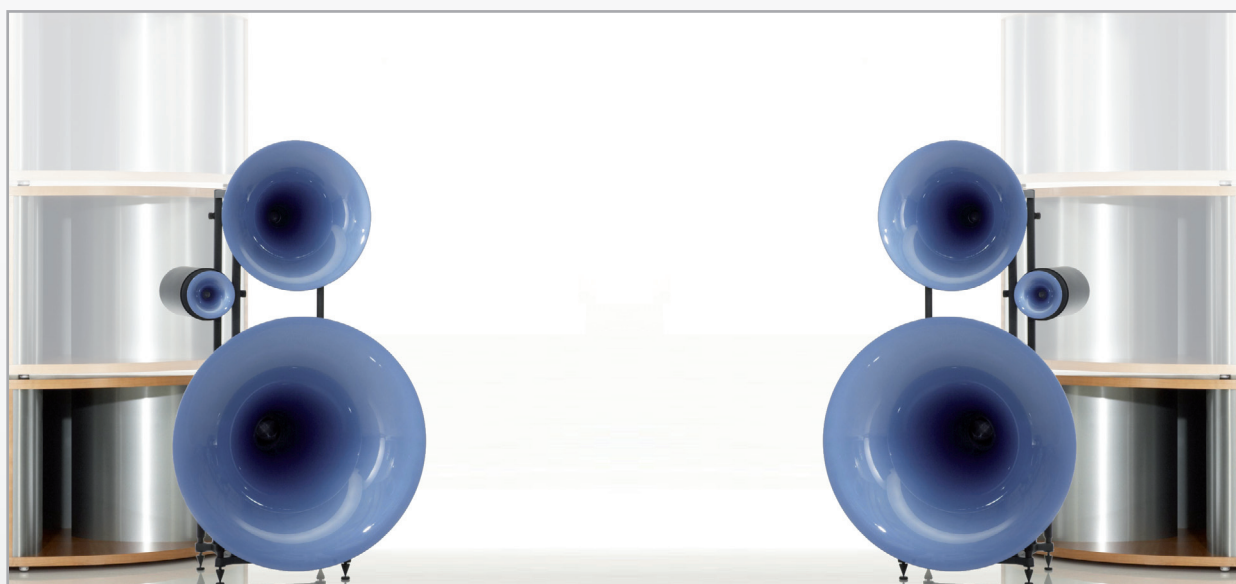
You prefer to use a PC or Mac computer system with a clearly laid out interface? The XD version offers that as well! No matter if you just want to set an individual subsonic filter, or a complex curve with room acoustic adjustments in the bass range: the XD SERIES CONTROL software gives you access in the most convenient way.



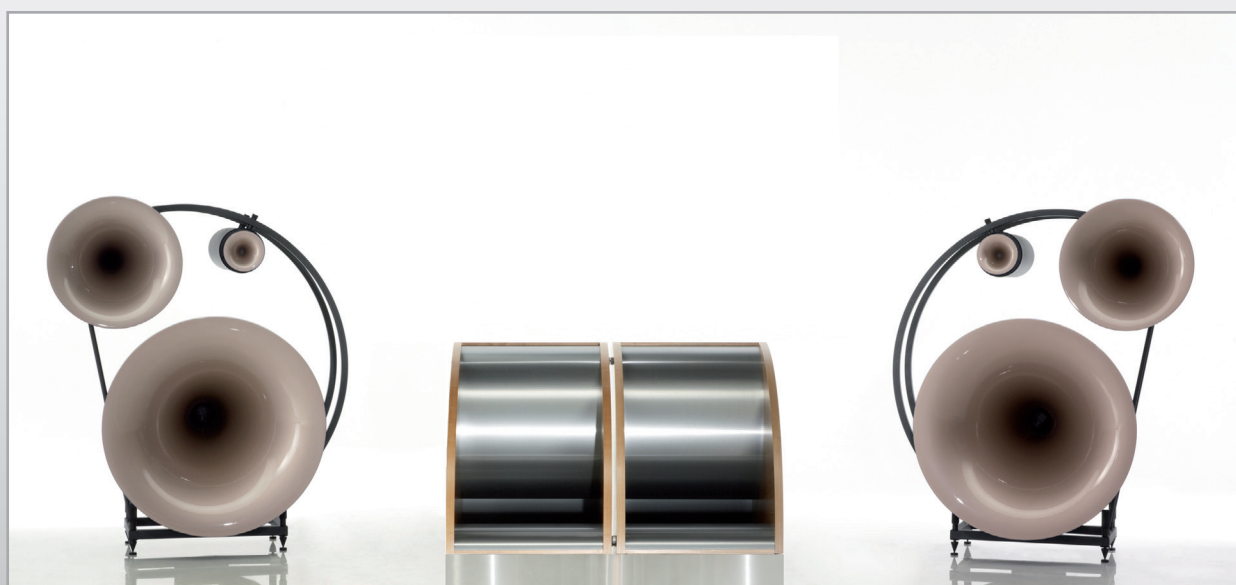
TRIO + BASSHORN, setup and placement examples:



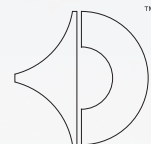
TRIO (Shiny Citrine Orange horns, custom option) with 2/4/6 BASSHORN modules (cherry veneer, custom option)



TRIO (Light Topaz Blue) with 2/4/6 BASSHORN modules (cherry veneer, custom option)



TRIO (Light Amber Bronze) with 2 BASSHORN modules in optional "upright" configuration (cherry veneer, custom option)



Technical Specifications Avantgarde Acoustic BASSHORN XD

SYSTEM DATA

Frequency response	satellite subwoofer	n/a 18 – 500 Hz
Power capacity		600 Watts/driver
Sensitivity (1 Watt / 1 m)		n/a, active
Crossover frequencies		variable, 20-500 Hz
Nominal Impedance		n/a, active
Recommended amplification		n/a, active
Recommended room size		> 25 m ² / 250 ft ²
CDC (Controlled Dispersion Characteristic)		n/a
CPC crossover (patent pend.)		n/a

HORN

Horn type		Expo-Spherical horn
Horn material		MDF-Alu compound
Horn finish		Aluminium finish
Dispersion type		180 degree

Horn mouth area	low range	0,850 m ² / 1318 in ²
	mid range	n/a
	high range	n/a

Horn mouth diameter	low mid range	n/a
	mid range	n/a
	high range	n/a

Horn length	low mid range	1,400 mm / 55 in
	mid range	n/a
	high range	n/a

HORN DRIVERS

Diameter	low range	300 mm / 12 in
	mid range	n/a
	high range	n/a

Magnet material	low range	Ferrite
	mid range	n/a
	high range	n/a

SUBWOOFER

Power output (RMS)		1000 Watts per module
Active crossover		programmable by built-in DSP
Subsonic filters		programmable by built-in DSP
12V trigger inputs		yes
Limiter		yes
Programmable via LAN/USB		yes/yes
Inputs, switchable		1+1 x speaker-level and 1 x XLR (f)
Loop-through output		1+1 x XLR (m)

Driver diameter		300 mm/12"
Drivers per subwoofer		2

DIMENSIONS/WEIGHT

Dimensions	width	91.025 mm / 40 in
	depth	1.060 mm / 42 in
	height (w/o feet)	740 mm / 29 in
Weight		96 kg / 212 lbs per module

Specifications are subject to change without prior notice.