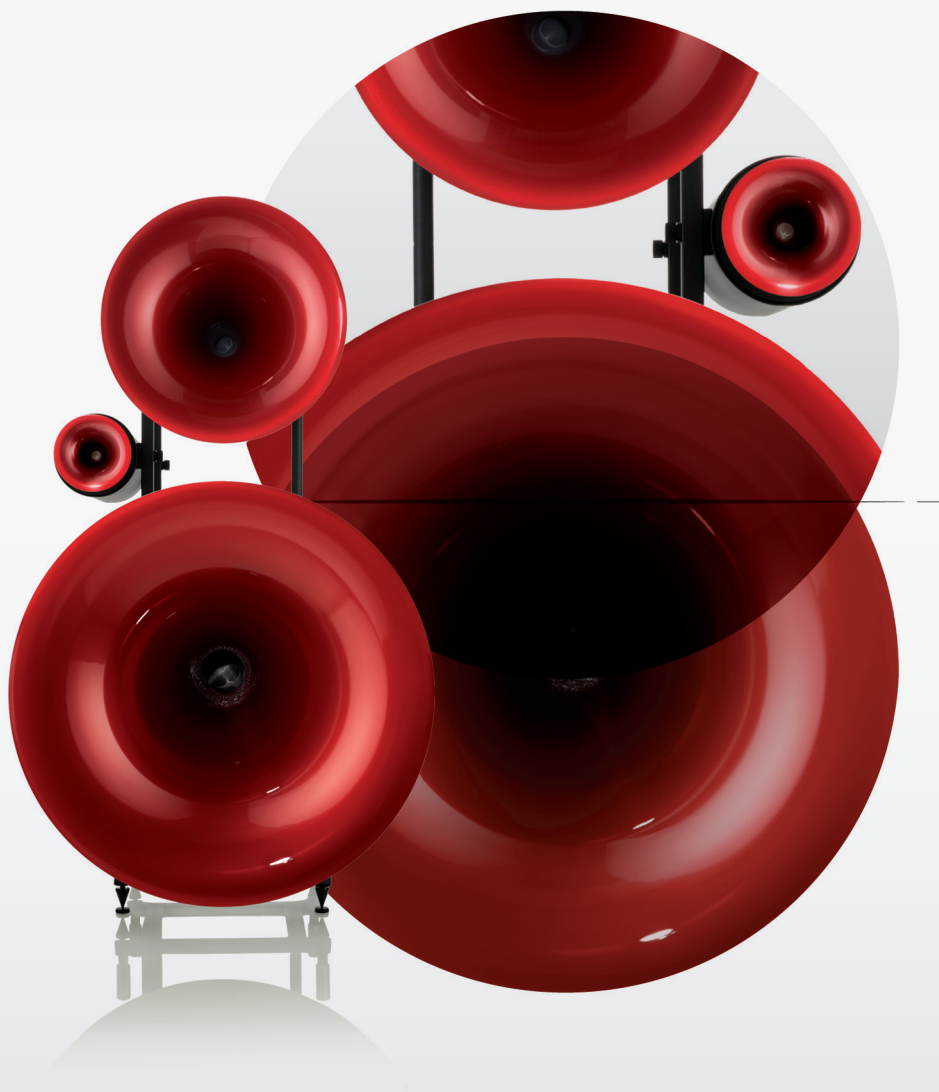


TRIO XD | FACT SHEET

Welcome to the audiophile Nirvana



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ACOUSTIC

Avantgarde Acoustic TRIO XD

The TRIO XD is Avantgarde Acoustic's latest reincarnation of a reference class speaker, one that has defined the Status Quo of horn speaker design ever since its introduction in 1991. Featuring all reference grade technologies, such as OMEGA drivers and CPC crossovers, it presents a true State-of-the-Art piece of engineering and an iconic visual statement. The solid and elegant construction, comprising steel and aluminium cast elements, was widely adopted from the preceding version. Thus the TRIO XD seamlessly continues the proven and well established concept of the Avantgarde Acoustic horn speaker design.

Like with the predecessor, the matching complementary subwoofer for the TRIO XD can be chosen from a range of 3 different models, SUB231 XD, SHORT BASSHORN XD and BASSHORN XD. All of which feature powerful 12" high-precision drivers, accurately controlled by the newly developed XD power amplifier modules. Due to its optimized Class-D circuitry, the XD amplifier delivers 1000 watts per subwoofer, 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 XD low-midrange horn.

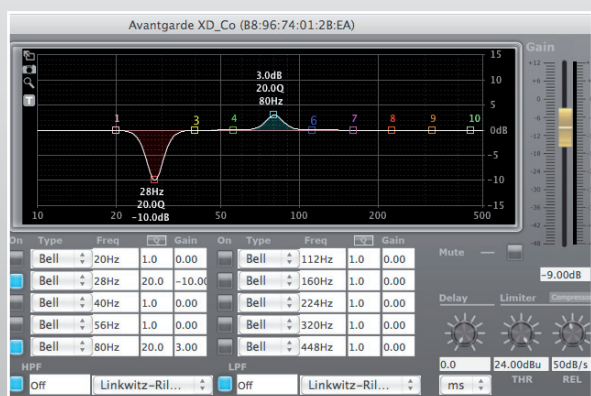
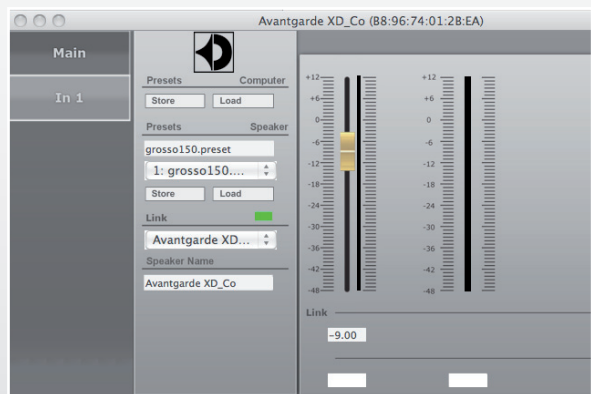
Already the SUB231 XD complements the TRIO with excellent bass response, offered in a compact package. Choosing the horn loaded SHORT BASSHORN XD will still improve the homogeneity and the "there-ness" of voices and instruments. And finally, opting for the BASSHORN XD, independent from choosing a 2, 4 or 6 modules' setup, will open a cornucopia of powerful and tuneful bass, presenting a sound stage of totally believable and realistic scale and "weight".

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.

New to the TRIO XD is also a re-developed State-of-the-Art low-midrange driver, featuring an optimized suspension system, and a completely new "Soft Mesh Compound" fiber-grid dome. Especially this dome considerably improves the openness and resolution, while at the same time providing a superb and natural richness that enhances the speech intelligibility of singers and speakers as much as the "there-ness" of instruments and of the recording environment, be it an intimate studio or a large concert hall.

Last-but-not-least, the mid range and tweeter range as well benefits from innovative engineering. The new crossover boards feature a new layout for our proven CPC (Capacitor Polarisation Circuit) circuitry, effectively preventing the negative influence of the "Dielectric Memory Effekt". Another "tessera" on the path to a pure and truly life-like presentation of recorded music.



TRIO + subwoofers, setup and placement examples:



TRIO (Ruby Brilliant Red horns) with SUB231 (Ruby Brilliant Red panels)

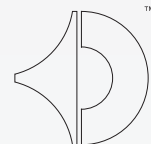


TRIO Classico* (Sapphire Burma Blue horns) with SHORT BASSHORN (ebony wengé veneer)

** TRIO Classico is an optional frame version, with identical audio specifications.*



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



Technical Specifications Avantgarde Acoustic TRIO XD

SYSTEM DATA

Frequency response	satellite	100 – 20.000 Hz
	subwoofer	18 – 500 Hz
Power capacity		150 Watts
Sensitivity (1 Watt / 1 m)		> 109 dB
Crossover frequencies		100 / 600 / 4.000 Hz
Nominal Impedance		19 Ohm
Recommended amplification		> 2 Watts
Recommended room size		> 25 m ² / 250 ft ²
CDC (Controlled Dispersion Characteristic)		Yes
CPC crossover (patent pend.)		Yes

HORN

Horn type		Spherical horn
Horn material		ABS injection mold
Horn finish		polished
Dispersion type		180 degree

Horn mouth area	low mid range	0,709 m ² / 1099 in ²
	mid range	0,255 m ² / 395 in ²
	high range	0,025 m ² / 39 in ²

Horn mouth diameter	low mid range	950 mm / 37 in
	mid range	570 mm / 22 in
	high range	180 mm / 7 in

Horn length	low mid range	650 mm / 26 in
	mid range	430 mm / 17 in
	high range	85 mm / 3.3 in

HORN DRIVERS

Diameter	low mid range	200 mm / 8 in
	mid range	50 mm / 2 in
	high range	25 mm / 1 in
Magnet material	low mid range	Ferrite
	mid range	Strontium Ferrite
	high range	Ferrite

SUBWOOFER

Power Output (RMS)	n/a
Power capacitance	n/a
Toroidal transformer	n/a
REAL TIME feedback control	n/a
ADRIC circuit (patent pend.)	n/a
Aktive frequency crossover	n/a
Subsonic filter, 3-positions	n/a
Automatic 12V remote On/Off	n/a
Smart Limiter	n/a
SoftStart circuit	n/a
Driver diameter	n/a
Number of drivers per module	n/a
Magnet material	n/a

DIMENSIONS/WEIGHT

Dimensions	width	950 mm / 37 in
	depth	830 mm / 33 in
	height (+/- 15 mm)	1.670 mm / 66 in
Weight		56 kg / 123 lbs

Specifications are subject to change without prior notice.