

BASSHORN

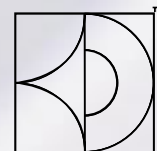


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The BASSHORN is much more than just the ultimate bass extension to high end stereo systems. It provides the rock-solid foundation to any kind of music. It extends dramatically the dynamic spectrum and emotional impact of the TRIO OMEGA system. It does not only bring the lowest frequencies spectacularly, powerful and ultra-dynamic to life, but even transforms the sound quality of voices and instruments into a new class of precision and authenticity.

The BASSHORN now extends the energy content and transients of the TRIO^Ω OMEGA to the lowest octaves. A full range horn solution which brings music to a new level of excitement – a seductive fascination like you have never heard before!

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The BASSHORN is a fully active system covering the range from 18 to 250 Hz. The modular concept allows the user to tailor the system to different acoustical environments. Two, four or six modules will give "State-of-the-Art" bass performance.

DRIVERS

Each BASSHORN module is driven by two especially designed 12 inch long excursion drivers which are powered by an integrated 2 x 250 Watt power amplifier. The 12X600 long excursion horn drive unit is characterized by its extremely high efficiency and utmost power handling capabilities. A huge magnet with 9 kg (20 lbs) weight, the clean 20 N/A BL power factor and a very stiff

but light membrane will ensure highest resolution and authority even with complex signals at extreme sound pressure levels.

HORN SIZE

Each BASSHORN module with its 185 in² (1.200 cm²) of membrane area is capable of replacing 500 cubic cm of air and blasting it into the horn throat. Through 55 inch (140 cm) long expo-spherical horn the sound waves are guided and transformed into the room.

The horn mouth area per BASSHORN module is 9 ft² (0,85 m²), in its full configuration with 6 x BASSHORN modules is 54 ft² (5,7 m²)!

ADRIC

But besides its overwhelming dimensions and impressive technical specifications, the Avantgarde™ designers have included something really unique: the patented ADRIC-technology.

This "Active Dynamic Radiation Impedance Compensation" is a special circuit which dynamically compensates for small horn mouth dimensions and linearizes the bass response below the cut-off frequency of the horn. It enables the BASSHORN – even when operated only with 1 x module - to achieve a bass response down to 18 hz with a horn mouth of just 9 sq. ft. This is unique and with its patented ADRIC circuitry the horn spe-



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Specialists from Avantgarde™ have managed to design the smallest horn subwoofer in the world.

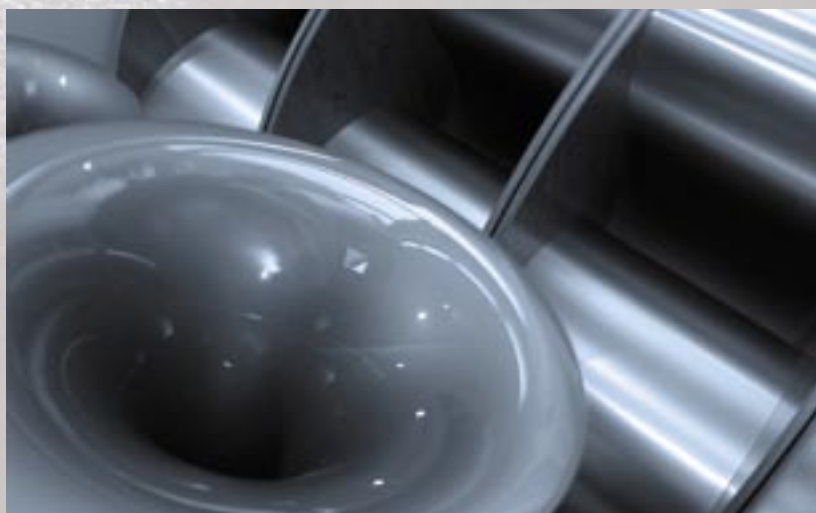
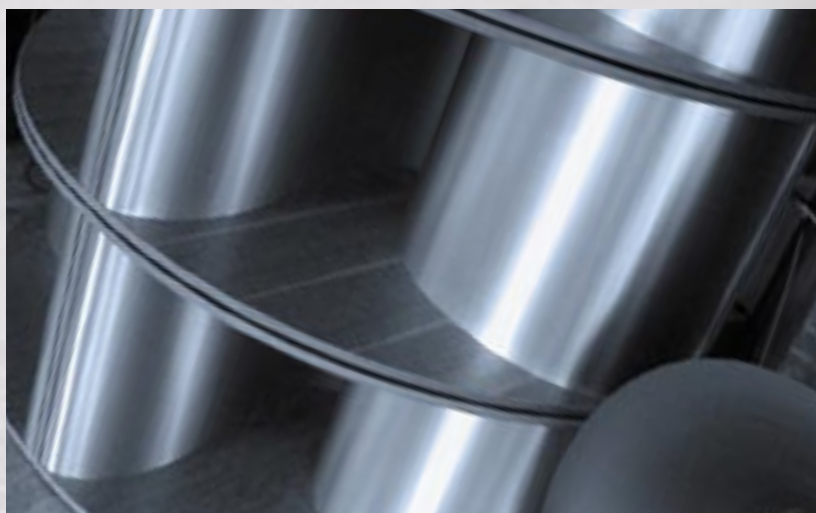
ELECTRONICS

The active crossover of the BASSHORN module allows the adjustment of a number of parameters. The subwoofer level and the crossover frequency can be adjusted by the means of a potentiometer and makes the BASSHORN compatible with all Avantgarde™ horn systems. For sure this includes as well the SOLO for ultimate "State-of-the-Art" home theater systems. Furthermore the module provides a 3-position subsonic switch and automated power-up by a 12V trigger input.

The BASSHORN is driven via high power speaker terminals for direct connection to integrated amps, power amplifiers or AV receivers. Alternatively it can be directly connected via XLR terminals to any balanced or unbalanced AV processor. The signal take-off is not only at high impedance, but is also balanced and transformer coupled. This floats the subwoofer ground, avoiding hum loops and eases connection to balanced and bridged amplifier designs.

CONSTRUCTION

The enclosure of the BASSHORN is made of 22 mm MDF material. The round horn flare is vacuum formed by Avantgarde™ with a multilayer sandwich construction. The round shape of the rear driver chamber and further internal reinforcing stabilizers reduce standing waves and ensure a rigid and non-vibrant enclosure of the BASSHORN.



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FINISHES

Each BASSHORN is individually manufactured to customer specifications. The round horn flare of the BASSHORN has an elegant aluminium finish. The top and bottom parts of the enclosure are available in a variety of different wooden veneers.



TRIO^Ω STANDARD



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TRIO^Ω CLASSICO



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SYSTEM DATA		
Frequency response		18 – 250 Hz
Enclosure		22 mm MDF board
Surface	top and bottom part	wooden veneer
	horn flare	brushed aluminium coated
Active radiation impedance control		yes
Active real time feedback		yes
Build-in amplifier		2 x 250 Watts
Remote 12V trigger ON/OFF		yes
Recommended room size		> 25 m ² / 270 ft ²
Recommended speaker system		TRIO omega
POWER HANDLING		
Sensitivity	1 x module	102 dB
	2 x module	105 dB
	4 x module	108 dB
	6 x module	109.5 dB
Amplifier power (RMS)	1 x module	350 Watts
	2 x module	700 Watts
	4 x module	1,400 Watts
	6 x module	2,100 Watts
Driver power handling capacity (RMS)	1 x module	1,200 Watts
	2 x module	2,400 Watts
	4 x module	4,800 Watts
	6 x module	7,200 Watts
AMPLIFIER		
Power output		2 x 250 Watts
Power capacitors		80,000 µF
High quality toroidal transformer		570 VA
Active crossover integrated		yes
Adjustable crossover frequency		60 – 220 Hz
Input sensitivity		adjustable
Soft start circuit		yes
DIMENSIONS / WEIGHT		
Dimensions	width (per module)	102.5 cm / 41 in
	depth (per module)	106.0 cm / 42 in
	height (per module)	70.0 cm / 28 in
Weight	per 1 x module	95 kg / 210 lbs

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HORN		
Horn typ		expo-spherical horn
Angle of horn mouth		180°
Horn length		140 cm / 55 inch
Horn mouth area	1 x module	0.85 m ² / 9 ft ²
	2 x module	1.90 m ² / 18 ft ²
	4 x module	3.80 m ² / 36 ft ²
	6 x module	5.70 m ² / 54 ft ²

DRIVER DATA		
Drivers per module		2 x 12X600
Power handling capacity	RMS	600 Watts
Power handling capacity	Program power	1,200 Watts
Nominal Diameter		300 mm / 12 in
Effective membran area		550 cm ² / 85 in ²
Displacement volume		500 cm ³ / 17 oz
Nominal impedance		4 Ohm
Sensitivity (1W/1m)		96 dB
Voice coil diameter		100 mm / 4 in
Max. linear excursion		18 mm / 0.71 in
BL factor		20.3 NA
Magnet diameter		228 mm / 8.9 in
Weight		9.7 kg / 20 lbs

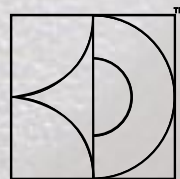
ACOUSTICAL DRIVER OUTPUT		
Effective membran area	1 x module	1,100 cm ² / 170 ft ²
	2 x module	2,200 cm ² / 340 ft ²
	4 x module	4,400 cm ² / 680 ft ²
	6 x module	6,600 cm ² / 1.020 ft ²
Max. displacement volume of drivers	1 x module	500 cm ³ / 17 oz
	2 x module	1,000 cm ³ / 34 oz
	4 x module	2,000 cm ³ / 68 oz
	6 x module	3,000 cm ³ / 102 oz

SOLO

UNO

DUO

TRIO



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