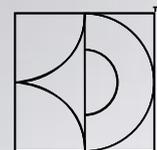


# SOLO



avantgarde™  
ACOUSTIC

Proudly taking its place in a legendary family of Hornspeakers - UNO, DUO and TRIO<sup>Ω</sup> -, the SOLO is the first compact full range horn system from Avantgarde Acoustic™ for the most demanding home theatre applications. The SOLO - with its graceful futuristic design - is a full-blooded member of the Avantgarde™ family. That means you will get all the passion and emotional involvement that Avantgarde™ Speakers are known to provide.

The famous Avantgarde™ virtues - which have made Avantgarde Acoustic™ one of the most sought after and acclaimed loudspeakers – are all present and accounted for in the SOLO: precise reproduction, powerful drive, and involving dynamics. The SOLO simply sounds “live”. The thrill of listening to an Avantgarde™ loudspeaker is always guaranteed.

The SOLO conveys that special Avantgarde™ feeling. How will you describe the SOLO: - Thrilling? Passionate? Powerful? Full blooded? Yes, all of these, and more. As Ettore Bugatti would have said – “le Pur Sang des Hautes Parleurs”. Yet the SOLO is as musically refined as a Stradivari.



# SOLO



avantgarde<sup>™</sup>  
ACOUSTIC



# SOLO



avantgarde™  
ACOUSTIC

The SOLO is a fully active, coaxial 2-way horn system in a bass reflex enclosure. With its powerful integrated 250 Watt amplifier and its point-source dispersion characteristics it is simple to be set up and can be easily matched to different acoustical environments.

## DRIVER

The core of the SOLO concept is its powerful 12C250 coaxial driver. Its outstanding technical parameters and the consequent optimization for the coaxial horn concept attributes to the revealing character of the SOLO.

Usually, coaxial speakers use the membrane of the bass unit as the tweeter horn. These vibrating horns cause colorations. The SOLO goes one step beyond. Its H1-tweeter is mounted concentrically on the backside of the 12C250 and radiates through the magnet pole into a fully extended 4 inch horn.

The tweeter horn at the same time serves as a phase plug for the bass unit. As a result one gets a controlled dispersion with amazing homogeneity even off-axis. This makes the SOLO ideal for the most demanding home-theatre systems. The enormous 4" voice coil, the rigid cellulose membrane and the powerful magnet structure of the bass driver ensure high power handling and incredible dynamic headroom. Its optimized suspension allows for a long excursion in the symmetrical magnetic field.

H1 is a tweeter providing an extremely wide frequency range reaching down to 1 kHz. Based

upon the same design principle of the nearly "legendary" TRIO<sup>Ω</sup> tweeter, the H1 offers very low distortion and excellent transient characteristics.

## ACTIVE POWER AMP

The beautifully integrated aluminium heat sink at the rear of the SOLO houses the electronics. The active module consists of a flexible input control unit, an active frequency crossover and a power amplifier - specially matched to the coaxial driver and bass reflex enclosure.

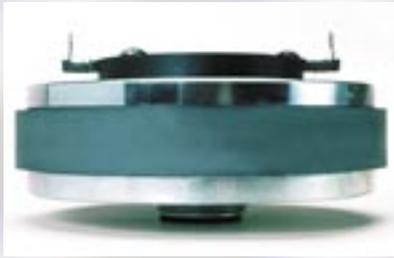
The 250 watt amplifier equalizes the system in the low frequencies and ensures extended full range speaker capabilities in a surprisingly small and compact enclosure. The 270 VA transformer and 20,000  $\mu$ F power capacitors provide the necessary high-energy reserves for critical passages. The amp has a high damping factor for precise control of the drivers.

A newly designed circuitry controls and aligns phase shifts and sensitivity of the drivers and passive crossover components. To avoid noise when switching the amp on, the PA201 is equipped with a Soft-Start automatic. This circuit gently powers the amp into operation, thereby avoiding the use of conventional relays with their reliability issues.

The SOLO can be driven via high power XLR speaker input terminals for direct connection to integrated amps (and power amplifiers or receivers) or alternatively via cinch or balanced inputs to preamplifiers. Variable input sensitivity and bass



# SOLO



equalization, adjustable subsonic filters and switchable high frequency response ensuring a very easy and fast installation of the system even in acoustically critical situations or behind perforated screens in home theatre applications. The SOLO can be remotely switched ON/OFF using the 12V trigger signal of AV amps. A ground lift switch enables the user to lift the ground.

## MECHANICAL CONSTRUCTION

The enclosure and the horns of the SOLO are made of specially developed Polyurethane material. Its extraordinary compact and homogenous molecular structure, providing maximum mechanical strength and resonance damping attributes. Our VMT-technique (varying material thickness) with additional structural supports in the inside and the round shape of the body makes the enclosure acoustically "dead", standing waves will not occur and the enclosure gets physically very solid and robust. The self-stabilizing joint assembly of horn, body and amplifier module made it further possible

to significantly reduce the size of the SOLO.

An aluminium stand and optional mounting brackets (for wall or ceiling mount) are available.

## FINISHES

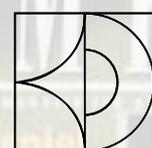
Avantgarde™ offers a free choice of colors for the horns, ranging from the classic black high gloss finish to various elegant metallic lacquers like red-, blue-, silver- and white pearlescent- metallic. Finished in elegant black, the SOLO enclosure is coated in high quality NEXTEL finish, the amp module is powder coated in elegant grey. Special finishes are available upon request.

## HOME THEATRE

For detailed information on the SOLO in home theatre applications, please refer to the respective SOLO home theatre PDF-guide on our website.



# TEST REVIEWS



**avantgarde**  
ACOUSTIC

"Besides the incredible undistorted max. sound pressure levels, one should emphasize the precise focus, the micro dynamics and the impressive temperament even at low volumes. Summary: High End AV at its best. Bass performance, dynamic and spl on an undisputable level. Top build quality. An emotional and fun machine of first grade. A speaker for gourmets." (IMAGE HOME ENTERTAINMENT, R. Kraft, Germany)



"Desire sonic lift-off? Admire Avantgarde Acoustic™ SOLO's new turbine design? Harbor anti-horn notions? The doubts are ungrounded... This baby is the hammer! Outer-space looks, requiring no amp, it simply sounds stellar: Resolved, dynamic, gentle, without typical horn colorations. A massive recommendation for everyone." (STEREO, H. Barske, Germany)



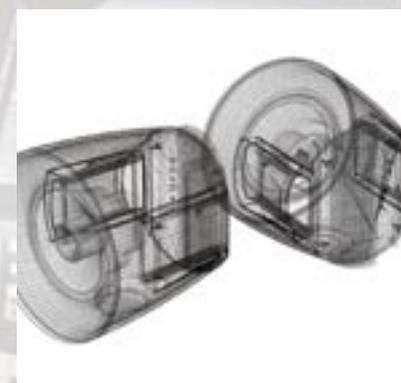
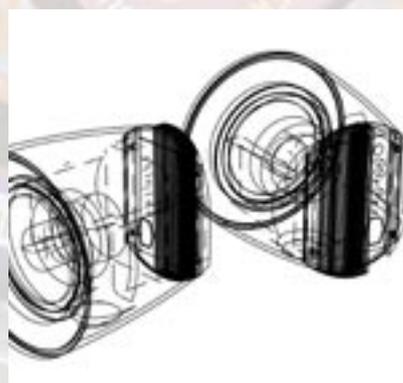
"The SOLOs imaging was like that of mini-monitors on steroids. Their outstanding intelligibility, wide ranging adjustability, built-in amps and equalization and small size could make them unbeatable for home theatre." (TAS, L. Kay, USA)



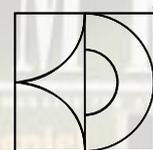
"Fully active and with its coaxial horn design the SOLO quickly demonstrates what high end sound reproduction is all about. With this presentation it is clear that our reference class has a new member." (HIFI TEST, O. Sturm, Germany)



"The SOLO gives you an amazingly complete system, of extraordinary capability, in an amazingly compact and convenient package. Considering that you get such an impressive speaker, plus a power amp, plus an electronic crossover, the Solo's price is excellent value. They equal or surpass the sonic capabilities of most huge tower speakers. Put five of these in your home theater, and you will have mind blowing sonics." (IAR, P. Moncrieff, USA)



# TEST REVIEWS



avantgarde™  
ACOUSTIC

"The SOLO impressed me, especially its line-genetic spontaneity of reproduction, with a huge fun quotient perhaps best described as the hotrodded turbo-charged Porsche among speaker systems. Extreme dynamics, resolute acceleration out of every gear, generating intense elation with the travelers. In short, a loudspeaker system concept for listeners who value dynamics, neutrality and the occasional speed rush of live-like volumes." (HÖRERLEBNIS, A. Aschenbrunner, Germany)



"Avantgarde™'s high quality sound engineering demands respect and is continued with the SOLO. This is a remarkable loudspeaker. Choose your colour and enjoy the vibrant go-for-it sound. In home theatre installations it should be stunning! Noting that the Solo includes on-board amplification, automated power-up and great versatility, this fascinating speaker may not have universal appeal, but easily scores high enough." (HIFI NEWS & RECORDS, R. Harris, England)



"Fine shades in volume were nicely reproduced, undistorted max sound pressure levels are thrown with incredible nonchalance and the brutal force is beyond any serious competition. The phantasmagoric sense of speed reaches effortless throughout the entire spectrum. Sonic attributes gain in unbelievable authority and convey in a realistic substantial manner." (IMAGE HOME ENTERTAINMENT, R. Kraft, Germany)



"The SOLO's reproduction caused enthusiasm not just for quantitative but rather qualitative performance: Image outlines were enormously precise. Translation? The virtual stage appeared as though cast in stone, without any drift or confusion. It's easily set up and universally adaptable. It plays loud and merely requires a preamp. It simply defines a compact class of its own." (STEREOPLAY, M. Dittert, Germany)



"Hearing is believing: The biggest surprise was the lack of coloration from the very visible horns. And the Avantgardes' ability to play loud with only a few watts means that you don't need a big amplifier to drive them. BAT amps were having no trouble working with the TRIO<sup>2</sup>s (L/R front), SOLO (center and rears), and SUB225 subwoofers to create an impressively big, dynamic home-theater sound." (STEREOPHILE Guide to Home Theater, T. J. Norton, USA)



# SOLO



**avantgarde**<sup>™</sup>  
ACOUSTIC

<b>SYSTEM DATA</b>		
Frequency response		30 - 20.000 Hz
Power capacity		250 Watts
Sensitivity (1W/1m)		> 97 dB
Crossover frequencies		2.000 Hz
Nominal Impedance	Bass driver	8 Ohm
	Tweeter	16 Ohm
Input connection	low level input	XLR / RCA
	high level input	XLR
Recommended room size		> 15 m <sup>2</sup> / 160 ft <sup>2</sup>
<b>HORN</b>		
Horn-type		expo-spherical horn
Horn material		Polyurethan
Molding process		non-pressure compound
Dispersion type		90°/180°
Horn mouth area	low mid range	1,661.9 cm <sup>2</sup>
	mid range	n / a
	high range	78.5 cm <sup>2</sup>
Horn mouth diameter	low mid range	460 mm / 18.0 in
	mid range	n / a
	high range	100 mm / 4.0 in
Horn length	low mid range	60 mm / 2.4 in
	mid range	n / a
	high range	60 mm / 2.4 in
<b>DRIVERS</b>		
Diameter	low mid range	300 mm / 11.8 in
	mid range	n / a
	high range	25.4 mm / 1.0 in
<b>AMPLIFIER</b>		
250 Watt amplifier		yes
Active crossover		yes
Subsonic filter		yes
Bass EQ		yes
Treble EQ		yes
Ground lift		yes
<b>DIMENSIONS - WEIGHT</b>		
Dimensions	width	460 mm / 18.0 in
	depth	455 mm / 17.8 in
	height (without stand)	460 mm / 18.0 in
Weight	Speaker	30 kg / 66 lbs

# SOLO



**avantgarde**<sup>TM</sup>  
ACOUSTIC

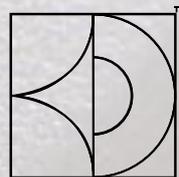
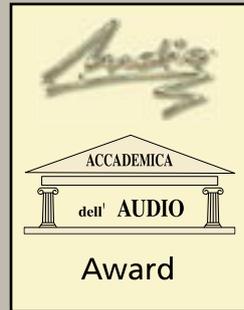
<b>TWEETER DRIVER</b>	
Throat diameter	25 mm
Voice coil diameter	44.4 mm
Nominal impedance	16 Ohms
Power capacity	50 Watts
Frequency range	800 – 20.000 Hz
Sensitivity	102 dB
Magnetic assembly weight	3.1 kg
BL factor	9.8 N/A
Magnet	Ferrite
Diaphragm	Aluminium
Overall diameter	144 mm
Depth	67 mm
Net weight	3.25 kg
<b>BASS DRIVER</b>	
Nominal diameter	300 mm
Voice coil diameter	100 mm
Nominal Impedance	8 Ohms
Power capacity	250 Watts
Sensitivity	97 dB
Magnetic assembly weight	8.7 kg
Magnet diameter	200 mm
Moving mass	39 g
Max. excursion	+/- 5 mm
BL factor	20.7 N/A
Magnet	Ferrite
Diaphragm	Paper
Overall diameter	320 mm
Depth	182 mm
Net weight	10.75 kg

SOLO

UNO

DUO

TRIO



**avantgarde™**  
ACOUSTIC

Avantgarde Acoustic™ GmbH  
Nibelungenstr. 349  
D-64686 Lautertal  
Germany

Tel: +49 (0) 6254/306-100  
Fax: +49 (0) 6254/306-109  
email: [avantgarde-acoustic@t-online.de](mailto:avantgarde-acoustic@t-online.de)