

WHITE PAPER

The New Audiovector R 6 Series; Signature (**Good**), Avantgarde (**Better**), Arreté (**Best**)

Developed, Engineered and Handmade in Denmark since 1979. Employing educated craftsmen only

The Audiovector R 6 series is a total renewal of the previous SR 6 series. There are 112 new additions, changes and improvements compared to the very popular and big sounding SR 6.

The R 6 series includes both the evolution of existing unique Audiovector technologies and concepts but also introducing brand-new revolutionary ideas, such as our newly developed Freedom Grounding Technology (Arreté).

The R 11 Arreté & R 8 Arreté are always our in-house references.

OUR MISSION

- We strive to optimize the thrill of listening and the pleasure and pride of ownership
- We are devoted to our advanced principles and high-end technologies and we carefully develop and hand build each of our products at our facility in Copenhagen, Denmark
- Innovation is always in the service of music. When a new concept or a new technology is introduced, it is because it allows us to optimize sound quality and listening pleasure
- We have since 1979 maintained a 'form follows function' design philosophy in order to always be able to present a great sounding, timeless and elegant design
- We are actively promoting environmental conservation through long lasting superb quality and the possibility to upgrade our products through our Individual Upgrade Concept (**IUC**)

EVOLUTION

Timeless and contemporary, an evolutionary process

At Audiovector we believe in sophisticated evolution of our advanced technologies. A great inspiration and especially the evolution and enthusiasm towards manufacturers like Porsche and Rolex have led us to work in similar ways when upgrading and launching new Audiovector models.

A NEW MODERN PROFILE AND A STRONGER STRUCTURE

Exclusively for Audiovector R 11, R 8 & R 6, the cabinets are assembled by thick non-resonant vacuum pressured shells. Made from high density hardwood (HDF) for the best possible strength and low resonance. The teardrop shape in combination with a laminated, dense, strong and heavy, rear baffle further reduces unwanted cabinet resonance and avoids standing waves. When assembled, cabinets are heavily braced internally and carefully damped with strategically positioned Nano Pore damping plates.

The newly designed baffles and plinth are made from carefully hand finished HDF, complementing the stiffness of the cabinets. The baffles are laminated for improved strength.

A benefit of this design is that we get to preserve maximum dynamics and performance. Cabinets are available in high gloss or matt finishes of exotic real wood veneers and a wide variety of luxurious custom colors.

All new R 6 models comes with a newly designed, solid plinth for improved air flow. M8 Spikes are mounted in a flexible steel construction to decouple the speakers from the floor.

NEW COMPOUND BASS SYSTEM

All R 6 models have been generously upgraded with a new bass system. All models use an isobaric compound bass system in order to go deeper, be more precise, play dynamic and aperiodic in their response. We use a hand built 6,5" internal woofer and 8" external woofer.

The Audiovector Isobaric Compound Bass system (**ICB**): The masses of the two bass drivers involved are coupled together by the trapped air in their common internal enclosure. This is possible without losing precision and the result is a precise, deep and controlled bass. In the R 6 series, the system 'breathes' through a perfectly tuned bass reflex on the front of the speaker.

THE NEW AUDIOVECTOR CARBON DRIVE UNITS, PRECISION AND HIGH DEFINITION

Fast reaction and amazing retrieval of details has been our goal

Rather than having to buy of the shelf drive units from even the finest and most respected manufacturers, we engineer our drivers in house and ask the best suppliers to build them for us. This way we make sure that we can co-engineer our drive units with our crossovers to form a perfect entity. Drivers are built by hand in Denmark in collaboration with Scan-Speak and their skilled craftsmen.

The combination of Titanium Coil Technology, large powerful ceramic ferrite magnets and rigid turbulence suppressing magnesium alloy, 3-point suspended baskets and membranes made from cross woven Aramid Composite Fibers, allows us to reach a rich, clear and vibrant sound.

With a result of optimal heat dissipation, a highly rigid titanium bobbin and an accurate response of the whole membrane assembly, the linear performance of the new driver now contributes to a clear bass and faithful uncolored midrange performances.

THE NEW AUDIOVECTOR TREBLE DRIVERS

Over dimensioned to the n-th degree. Relaxed and finely detailed – made in Copenhagen, Denmark

Evotech Signature Soft dome treble driver

Our dome tweeters have always been well ahead of its time. Featuring a silk dome, which is supported on its rear side by a pressure regulating accelerator. A no Compression driver due to its open back which is carefully adjusted to work in our unique Soundstage Enhancement Concept (**SEC**).

A broad authentic soundstage, which opens the whole experience of airiness and depth. Producing a delicate, fast and very detailed reproduction up to 26 kHz with a low level of distortion.

Avantgarde & Arreté Air Motion Transformer treble drivers

Probably the fastest treble driver construction. Based on the original revolutionary technology, invented in the 1970's by Dr. Oscar Heil. Our tweeters have no mass to accelerate or decelerate. Reaches up to more than 52.000 Hz with perfect dispersion in both the horizontal and vertical plane.

The AMT features ultra-strong Neodymium magnets, lightweight precision coated mylar membranes and are mounted and decoupled from the cabinet in 3 points, a proprietary Audiovector concept called No Energy Storage (**NES**).

The tweeters are open to the front and to the rear, being able to move freely due to the Soundstage Enhancement Concept (**SEC**).

Furthermore, in the top of the line Arreté models, the hand built Audiovector Arreté AMT treble driver uses an integrated acoustic lens which allows for an even sweeter, more detailed treble response and exemplary integration with the other drivers. The R 8 Arreté has been a great inspiration here.

MINIMAL BAFFLE AREA

In order to take full advantage of the Audiovector treble drivers and the newly developed Carbon drivers, the front baffle is as narrow as possible. The result is a smooth, broad, precise sound diffusion, which keeps unwanted diffraction distortion to an absolute minimum.

3D SOUNDSTAGE + 3" REAR FIRING MIDRANGE DRIVER

To further improve realism and 3D performance, the new R 6 Arreté now uses a rear firing 3" midrange driver with its own dedicated crossover. The technology using a rear firing driver, is inspired by our reference R 11 and R 8 Arreté. The construction also adds a perfectly dosed level of midrange.

A TECHNICAL REVOLUTION. THE AUDIOVECTOR FREEDOM GROUNDING CONCEPT

Audiovector Freedom is a new and revolutionary grounding technology, which addresses the movement induced distortion of and between the drive units in a loudspeaker. The currencies running between the chassis are being processed and dealt with through a new separate crossover, which routes the signal to the ground terminal of your wall socket or your grounded mains distributor. Contrary to conventional knowledge, these currencies cause coloration and distortion between the drive units. By balancing and filtering these through a dedicated separate filter and by offering the possibility of connecting them to earth/ground, we achieve a clean, very accurate, much more realistic sound with low noise floor.

- Reduction of distortion of 3 dB (approx. 50%)
- Special dedicated filter exclusively for the grounding purpose
- No active connection. On mains plugs, only ground is connected, **no voltage**
- Noise floor is at a minimum

AUDIOVECTOR CROSSOVER TECHNOLOGY

The crossover is the heart of the loudspeaker – strong and precise with low distortion

The new R 6 crossovers provides an ultraclean signal path in order to retain the most detailed musical reproduction. By using only one high precision, high quality and cryogenically treated component in series with each driver, we minimize resistance loss. And by adding our Dynamic Feed Forward Technology (**DF**) the resistance related loss in coils is reduced up to 50%, minimize build-up heat which results in improved transient performance.

Freedom Grounding is exclusive for **Arreté** models. Dedicated Freedom Cable is an option and is listed separately in our pricelist.

THANK YOU FOR YOUR INTEREST

BEST REGARDS



MADS KLIFOTH
CEO & OWNER



OLE KLIFOTH
R&D MANAGER & FOUNDER

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