



"F" Sandwich



### Aria 900 .... Affordable High-End

Eighteen years after the launch of made in France, the range features of Aria 900 range are available the "W" sandwich cone, Focal is brand-new speaker drivers with Flax unveiling its new major innovation: speaker drivers with the same sandwich structure, but composed of a natural flax-fibre cone. This innovation is the result of more designed cabinets and crossothan 5 years of research and a vers: nothing has been spared unique drive to work on the actual source of the emission of sound. This constant quest for acoustic music lovers. excellence gave birth to Aria 900, a range which prefigures the radical technological changes and which launches a design combining elegant classicism and modernity.

Aria 900 marks a new milestone for Focal and a new chapter in high- beautiful mineral and organic fidelity technology. Designed and materials. The loudspeaker cabinets



> For 35 years Focal has been developing and manufacturing loudspeakers for the home, speaker drivers for the car, monitor speakers for recording studios and more recently a sound bar Market leader in High-fidelity, Focal's worldwide reputation is well known: our brand is recognised everywhere for its sound quality and its numerous technological innovations.



sandwich cones, new TNF Aluminium/Magnesium inverted dome tweeters with Poron suspension, injected zamak baskets, carefully and quality, helping it to blend in when it comes to maximising listening pleasure for well-informed

The style of Aria 900 marks a step forward for the current Classic Collection: the strong identity of the Chorus 800 V range has been replaced with a purer, simpler and more timeless style combining

in Walnut and Black High Gloss finishes. All cabinets feature a glass surface and a leather-finished front panel. This design exudes style perfectly with traditional or more contemporary interiors.

The vast range of Aria 900 products is ideal for stereo and Home Cinema audio systems. The two 8" woofers of the 948 model mark a return to true expressive and dynamic highfidelity loudspeakers.



### **Returning music** to its rightful place

In the course of the last decade the ways in which we reproduce music have seen enormous changes. Plummeting CD sales and the growth in downloads have turned our relationship with music on its head. It comes as no surprise that access to music, which has never been easier, and the cost of that access, verging on the free of charge, have led to a situation of abundance. But, when all is said music of at least CD quality. and done, where is the pleasure?

What we need today is a new set of benchmarks, fully in tune with all new media, to guide us towards the music we love. Many specialised sites have appeared, with the editorial content to help us make our musical choice. This is the "upstream" phase of musical discovery: the pleasure of uncovering new talents, new works, and so on. Here at Focal, our work focuses more on the "downstream". Our role is to enable

never neglecting the aesthetic dimension that is the hallmark of every top quality product. And the good news is that sound quality is no longer limited by the quality of the source media. Digital has entered another phase: the high cost of data storage that meant files had to be compressed ten years ago is no more and nowadays it is perfectly possible to access high definition

The unfortunate thing is that the majority of audio products developed back then for compressed music albeit with advanced functionality were made with severe economies placed on their acoustics, in the guest for "miniaturisation" and affordability. The result being that they are simply not good enough for quality reproduction of CD format or high definition files. It is time to return music to its rightful place and it is no coincidence that we are now witnessing a renaissance you to reproduce music at home in "classic" high-fidelity. No-one with the best possible quality, while would deny that hi-fi separates

demanding music-lovers. Luxury does exist in the audio segment and we are well established within it with our Utopia III range. But one of Focal's defining characteristics has always been our desire to be ahead of the curve, anticipating the needs of audiophiles everywhere. Listening to a Utopia III system is a rare moment, a very particular sensory experience which opens up hitherto unheard musical landscapes. And the challenge for us is how to bring such emotion, such feeling, to a greater number of people. Ever since its creation this has been Focal's quest, through its respect for the acoustic art, through its constant innovation in the fields of materials and manufacturing processes, and last but far from least, through keeping every step of production in house.

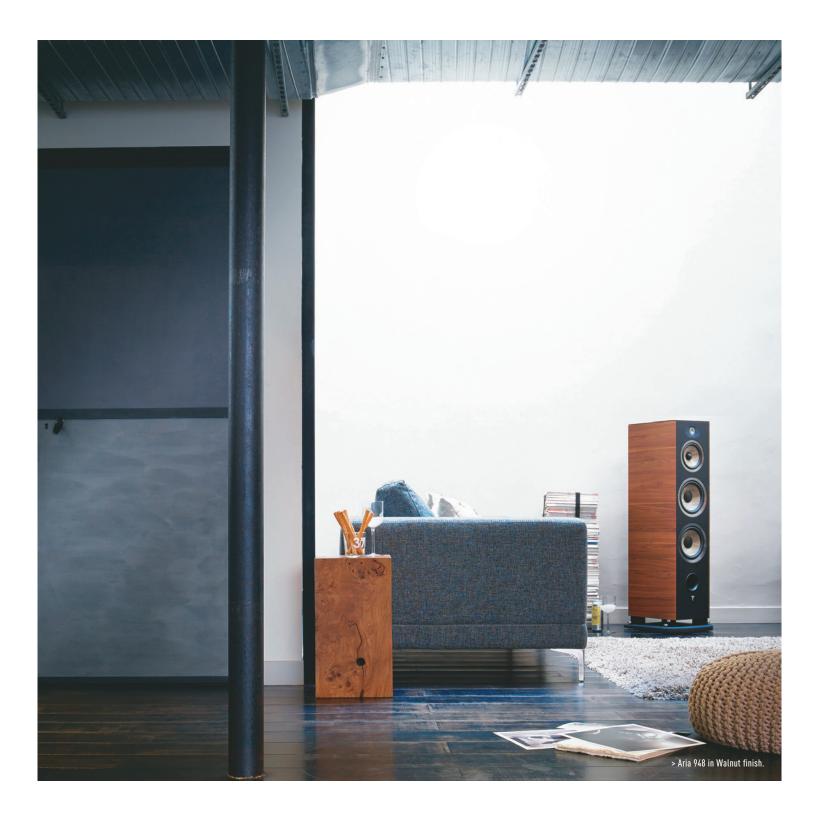
systems are still out there for savvy,

And so, Aria is an important milestone in the pursuit of "Affordable High-End".



> Aria 906 in Walnut finish with Naim DAC and amplifier.





# Design

Perceptions of the speaker enclosure of bygone years has never been. And to do away with unnecessary have evolved over recent decades. From the "pseudo-musical-instrument" with its ostentatious wooden they are all achieving mass appeal cabinet of the 70's and 80's, more than fifty years on, evidence tweeter has a small matt black through the techno-object of the of a search for meaning, for identity urethane wave guide for improved 90's, the general tendency towards or for some other solid benchmark miniaturisation of the 2000's has through consumption in this period turned the audio loudspeaker into of globalisation. an intrusive item.

As in so many other areas, design is used to make these acoustic objects highly desirable. Our living spaces are awash with "high-tech" products, which often means mi- resist the passage of time. niaturizing them.

so easily bent and audiophiles have just had to accept that hi-fi speakers have to be a certain size. And the most beautiful materials so they integrate them into their spaces as part of their furnishings, as a statement of their personality, of their passion...

furnishing, it is striking that the influence of the great designers lightweight aluminium for its plinth.

stronger. Charles and Ray Eames, Mies Van der Rohe. Arne Jacobsen...

conceived as an elegant piece of home furnishing; simple, with great stature, quality materials and soft shapes which capture the light and

Just as with Utopia III, our work on But the laws of acoustics are not Aria with Pineau & Le Porcher was based on simplifying, eliminating the superfluous, carefully choosing possible in support of the desired performance.

The glass on its upper face for strength, the leather finish to its Turning to current trends in home front face for its absorbent and acoustic diffraction qualities,

details, it has no visible fixings solid brushed metal rings surrounding the bass and midrange cones; the sound diffusion, the fabric grille attaches magnetically.

Lastly, the remarkable "Flax In this context, Aria has been Sandwich" cones made of natural flax fibre with their ultra-organic identity are the finishing touch that give Aria its unique style.



> Aria 926 in Black High Gloss finish and Aria 905 in Black High Gloss finish on the S 900 stand.

#### The materials revolution, or the rediscovery of flax

The cone of a loudspeaker is from then on Focal was able to a key mechanical component. Its characteristics have a direct back to the original source, unlike impact on the sound quality. Its role competitors who always had to could not be simpler: it makes the air molecules vibrate in response to the electrical signal from the intrinsic weaknesses of the cone. amplifier.

An ideal cone should be light, for rapid acceleration, stiff so as not to distort the sound, particularly in the bass, and finally, damped that is to say neutral - so as not to add sound colouration from its component materials.

Focal's reputation derives from its unique mastery of the loudspeaker, the fruit of multiple innovations: notable among them, the sandwich structure cone, introduced in the mid-80's. Numerous developments over time led to the "W" sandwich cone which, more than 18 years on, is still an unequalled benchmark.

Developed for Utopia, this particular climatic conditions found patented technology meant that in Flanders, Picardy and Normandy.

sculpt the response curve right employ electrical corrections which did nothing to eliminate the

Unfortunately, as the only way to build these "W" sandwich cones is by hand, their cost means they cannot be used in more affordable products. In addition, the singlematerial solution is just not enough to meet all requirements.

This is why Focal has been continually exploring innovations in materials science. Over recent years, ecological conscience playing no little part, hybrid materials have appeared blending composites chemistry with natural fibres, flax being foremost among them.

French flax fibre is one of the best in the world, thanks to the very Using this, and the multiple benefits of flax, as a starting point, we have developed a new technology, the "Flax Cone". Flax fibre, a product known from antiquity, has superlative mechanical characteristics: low elasticity at 1.5%, which approaches that of carbon fibre, with rigidity close to Kevlar, at 60 GPa.

Sandwiched between two sheets of glass fibre, flax's inelasticity works wonders, endowing the cone with remarkable stiffness.

Composed of 80% cellulose, flax fibre is hollow, making it ideal for combining neutrality and lightness. By adjusting the flax braid's density it is also possible to maximise stiffness, in a woofer for example, or lightness and damping in a midrange speaker. More details on our website www.focal.com



> Aria 926 in Black High Gloss finish.



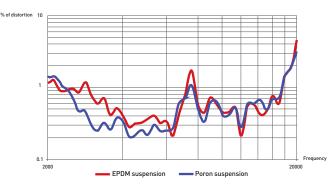




#### The new **TNF** Tweeter

the inverted dome tweeter has been continually developed ever since it magnesium tweeter. was created. It bears repeating that its main advantage, apart from its The suspension between the dome This performance guarantees an very low directivity, lies in its use of a coil of small diameter (hence very light and better accelerating) directly fixed to the rigid dome.

and midrange speaker drivers, what makes Focal unique is working directly on the sound output and, therefore, on the mechanical characteristics the pure Beryllium inverted dome of this exclusive technology.



> Distortion levels directly affect sound quality. The use of Poron has reduced the distortion by half in the tweeter's. Bandwidth between 2-4 kHz: an area where the sensibility of the ear is very high.

Focal brand's signature product, For Aria, we have brought two major evolutions to our aluminium/

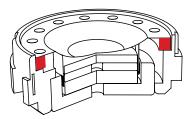
and its bracket uses Poron, a material with shape memory. This suspension method is directly derived from the famous Utopia Beryllium tweeter, making it It is due to more than twenty years' Just as with the cones of its bass possible to reduce distortion by a factor of two in the 2-4 kHz range, where the human ear has very achieve such precision in a comgreat sensitivity.

of materials. When we introduced The inverted dome's spatial characteristics and very low tweeter ten or so years ago, we clearly directivity already make it greatly demonstrated the decisive advantage superior to the conventional loudspeakers... domes used by our competitors

and to further improve this a wave guide has been developed. In a horizontal plane, its frequency response has a variance of +/- 0.5 dB. incredibly stable sound stage which makes the listening position much less critical.

dogged work on our manufacturing processes that it is possible to ponent as delicate as a tweeter.

Control over production is the one and only solution for continued innovation when it comes to



> Cross-section of the TNF tweeter. Poron's physical properties provide improved control over the mobile assembly in the magnetic parts.

# **Aria 948**

Starting point for the Aria concept, for finalising tonal balance was to The "Flax" membrane is offering the Aria 948 was designed to make move towards that of the Scala V2 Focal very encouraging prospects, "Flax" technology. In fact, it serves

if it meant defying market trends. This is the only solution to having performance and dynamics whilst retaining good bass extension.

Profiting from more than twenty years' experience in membranes, the woofers' "Flax" sandwiches use a 250g/m<sup>2</sup> flax braid to maximise stiffness, while the midrange units use 150g/m<sup>2</sup> density for optimal lightness and damping.

enclosure, with substantial dimensions. With its high 92.5dB/W/m sensitivity it is easy to drive, even Utopia in 1995, developed as a with modestly powered amplifiers. concept product used to validate Keeping its componentry in mind,

the very most of our brand new Utopia, our range's benchmark, if finding a place for itself among indeed it can be said that we have the true acoustic values that Focal to some extent as a demonstration... one! Of course, its definition is not as marked as that of the Scala V2 Starting by going back to with its "W" sandwich membranes There is no measurement for the fundamentals, with its two large- and its beryllium tweeter, but its ensemble of criteria used when diameter 8" (21cm) bass cones even overall sound signature comes one listens to a piece of music - the astonishingly close, with the ease provided by its high dynamics, airy spatial characteristic and jubilant sense of rhythm.

> The contribution made by "Flax" sandwich membranes is should be compared with products in a similar price range, formerly fitted with Polyglass cones. There is a very real gain here in terms of definition and presence in the midrange.

The Aria 948 is, therefore, a "generous" Aria 948 was clearly the prototype for definitive validation of "Flax" sandwich cones, like the Grande "W" sandwich cones. The results the objective given to the teams more than met our expectations.

holds so dear.

sensory dimension remains the final arbiter.





## **Home Cinema**

array of Home Cinema configurations increased clarity of reproduction, are two main criteria for choosing to match, among others, the size of most noticeably in the 2-3 kHz the main speakers: the first is the size the listening room.

The CC 900 centre speaker is the keystone of the system. It needs Focal's teams worked particularly And when it comes to dynamic to bring precision and consistency hard on avoiding directivity problems capacity, the Aria 936 floor standing between the visual image and the when listeners moved to one side from loudspeakers provide remarkable sound stage. The "Flax" sandwich the centre line. This led to the benefit results, guaranteeing you a truly membrane's contribution to definition of great stability, for a truly immersive outstanding Home Cinema 5.1 is marvellously apparent, with voices 3D experience with the SR 900s system when used with the CC 900 that have both intelligibility and depth. used as bipolar surround speakers. and a pair of SR 900. The TNF tweeter waveguide and Thanks to the Polyfix wall-mounting associated new Poron suspension system, SR 900 loudspeaker is easy

The Aria range is vast, enabling a huge also make their contribution to to integrate into your interior. There frequency range that is so critical of the room, and the second is the for voices.

dynamic capacity required.





### Subwoofers, a family of speakers in their own right!

In our catalogue, the subwoofer is free to wander. Instead of offering one model for each line of products, Focal has reversed the trend in order to offer consumers a more judicious choice, and has started a line of subwoofers destined for specific uses. This means increasing the number of possible combinations. From now on, according to the size of your system, you will be able to choose from models of subwoofers which perfectly stand up to expectations in terms of performance and use.



Despite its nonconformist appearance, the **Sub Air** is a true high-performance subwoofer equipped with a 8" (21cm) bass-reflex speaker driver and a 150W BASH® amplifier. Taking up little space, it blends in perfectly with its surroundings, whether it's on the floor or mounted to the wall thanks to the original mounting kit. Thanks to the high-quality wireless radio transmission (16 bits/44.1 kHz), the **Sub Air** is easy and quick to install.



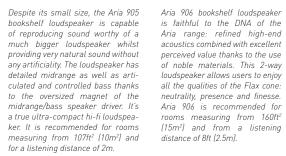
The **Sub 300P** is a subwoofer destined for lovers of strong sensations. It is equipped with a 10" (27cm) woofer with polyglass cone powered by a powerful 300W RMS BASH® amplifier. Its textured Black finish will help it blend into your interior. The **Sub 300 P** is an essential feature to increase the response of the bass in various multichannel systems.











is faithful to the DNA of the Aria range: refined high-end acoustics combined with excellent perceived value thanks to the use of noble materials. This 2-way loudspeaker allows users to enjoy all the qualities of the Flax cone: neutrality, presence and finesse. Aria 906 is recommended for rooms measuring from 160ft<sup>2</sup> (15m²) and from a listening distance of 8ft (2.5m).

Aria 926 embodies the home 3-way floor standing loudspeaker. This musical and expressive loudspeaker is easy to install. All kinds of music lovers will be thrilled with its acoustic qualities. Aria 926 is by definition an affordable audiophile loudspeaker. It is ideal for rooms measuring from 215ft<sup>2</sup> (20m<sup>2</sup>) and from a recommended listening distance of 10ft (3m).

Aria 936 is a 3-way loudspeaker featuring an elegant design and a small footprint. Very linear and with impressive dynamics, thanks to its 3 woofers, it is naturally intended for listening in stereo for monitoring-type activities. This loudspeaker is also ideal for setting up a spectacular Home Cinema system. Appropriate for rooms measuring from 270ft<sup>2</sup> (25m<sup>2</sup>) and from a listening distance of 10-12ft (3-3.5m).

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	<b>Aria 905</b> Black High Gloss finish	<b>Aria 906</b> Walnut finish	<b>Aria 926</b> Black High Gloss finish	<b>Aria 936</b> Walnut finish
• Туре	Two-way bass-reflex bookshelf loudspeaker	Two-way bass-reflex bookshelf loudspeaker	Three-way bass-reflex floor standing loudspeaker	Three-way bass-reflex floor standing loudspeaker
• Speaker drivers	5" (13cm) Flax bass-midrange 1" (25mm) Al/Mg TNF inverted dome tweeter	6 <sup>1/2</sup> " (16.5cm) Flax bass midrange 1" (25mm) Al/Mg TNF inverted dome tweeter	Two 6 <sup>1/2</sup> " (16.5cm) Flax bass 6 <sup>1/2</sup> " (16.5cm) Flax bass midrange 1" (25mm) Al/Mg TNF inverted dome tweeter	Three 6 <sup>1/2</sup> " (16.5cm) Flax bass 6 <sup>1/2</sup> " (16.5cm) Flax bass midrange 1" (25mm) Al/Mg TNF inverted dome tweeter
<ul> <li>Frequency response (±3dB)</li> </ul>	60Hz - 28kHz	55Hz - 28kHz	45Hz - 28kHz	39Hz - 28kHz
<ul> <li>Low frequency point -6dB</li> </ul>	52Hz	47Hz	37Hz	32Hz
<ul> <li>Sensitivity (2.83V/1m)</li> </ul>	89dB	89.5dB	91.5dB	92dB
<ul> <li>Nominal impedance</li> </ul>	8 Ohms	8 Ohms	8 Ohms	8 Ohms
<ul> <li>Minimum impedance</li> </ul>	4 Ohms	4.6 Ohms	2.9 Ohms	2.8 Ohms
<ul> <li>Crossover frequency</li> </ul>	25 - 100W	25 - 120W	40 - 250W	50 - 300W
<ul> <li>Recommended amplifier power</li> </ul>	2 500Hz	2800Hz	290Hz / 2400Hz	260Hz / 3100Hz
• Dimensions (HxWxD)	13532 x 81132 x 94164" (334x212x245mm <b>)</b>	15 <sup>3/8</sup> x 8 <sup>7/8</sup> x 11 <sup>1/32</sup> " (390x225x280mm <b>)</b>	40 <sup>3/4</sup> x 11 <sup>9/16</sup> x 14 <sup>5/8</sup> " (1035x294x371mm)	45 <sup>1/4</sup> x 11 <sup>9/16</sup> x 14 <sup>5/8</sup> " (1150x294x371mm)
• Weight	13lbs (5.8kg)	19lbs (8.5kg)	55lbs (25kg)	64lbs (29kg)



Aria 948 symbolises the return of the "true" acoustic loudspeaker. A new type of 3-way loudspeaker with two 8" (21cm) speaker drivers effortlessly providing intense and controlled bass. The intention was a return to the very essence of acoustics for those who are passionate about music. This is the ultimate loudspeaker of the range for rooms measuring from 320ft<sup>2</sup> (30m<sup>2</sup>) and from a recommended listening distance of 12ft (3.5m).

	<b>Aria 948</b> Black High Gloss finish	<b>Aria CC 900</b> Walnut finish	<b>Aria SR 900</b> Black Lacquer finish
• Туре	Three-way bass-reflex floor standing loudspeaker	Two-way bass-reflex floor standing <i>centre speaker</i>	Two-way sealed bipolar surround loudspeaker
• Speaker drivers	Two 8" (21cm) Flax bass 6 <sup>1/2</sup> " (16.5cm) Flax bass midrange 1" (25mm) Al/Mg TNF inverted dome tweeter	Two 6 <sup>1/2</sup> " (16.5cm) Flax bass midrange 1" (25mm) Al/Mg TNF inverted dome tweeter	Two 5" (13cm) Flax bass midrange Two 1" (25mm) Al/Mg TNF inverted dome tweeter
<ul> <li>Frequency response (±3dB)</li> </ul>	37Hz - 28kHz	57Hz - 28kHz	85Hz - 28kHz
<ul> <li>Low frequency point -6dB</li> </ul>	31Hz	50Hz	67Hz
<ul> <li>Sensitivity (2.83V/1m)</li> </ul>	92.5dB	91dB	90dB
<ul> <li>Nominal impedance</li> </ul>	8 Ohms	8 Ohms	8 Ohms
<ul> <li>Minimum impedance</li> </ul>	2.5 Ohms	4.3 Ohms	3.6 Ohms
<ul> <li>Crossover frequency</li> </ul>	50 - 350W	40 - 200W	25 - 120W
<ul> <li>Recommended amplifier power</li> </ul>	280Hz / 2 600Hz	2800Hz	2200Hz
• Dimensions (HxWxD)	45 <sup>1/4</sup> x 14 <sup>5/8</sup> x 16 <sup>9/16</sup> " (1150x371x420mm)	7 <sup>7/8</sup> x 20 <sup>63/64</sup> x 9 <sup>5/8</sup> " (200x533x245mm)	11 <sup>3%4</sup> x 15 <sup>3/4</sup> x 6 <sup>11/16</sup> " (295x400x170mm)
• Weight	77lbs (35kg)	23lbs (10.5kg)	12lbs (5.6kg)

> 24" (60cm) optional Aria S900 stand.





The Aria CC 900 2-way centre speaker can be easily combined with the front speakers of the range. The CC 900 was developed with particular attention to timber matching in order to obtain sonic coherence and homogeneity for all kinds of configurations. Recommended for rooms measuring from 215ft<sup>2</sup> (20m<sup>2</sup>) and for a listening distance of 10ft (3m).

Aria SR 900 is a 2-way bipolar surround loudspeaker with the same acoustic characteristics as the other loudspeakers in the Aria range. Composed of two 5" (13cm) woofers with Flax sandwich cones, it provides very high-definition and natural sound. For the treble register, there are two aluminium/ magnesium inverted dome tweeters with Poron suspension and a waveguide for a better control of directivity.





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