

Confidence

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Hearing emotions. Feeling music. Discovering truth. **Confidence**



Only when a loudspeaker concept is truly deserving will its vision yield a real product. There is always a lot of tension in house when Dynaudio is at work developing a new loudspeaker concept. But not every R&D project will result in a new speaker. Only when a model meets Dynaudio's target of bringing musical reproduction to a higher level will a development project become a real product.

There has been no other audio manufacturer that has so faithfully pursued a perfectly true and natural musical reproduction as Dynaudio. The company has pioneered new technical innovations while creating products that have endured the test of time. From the beginning, Dynaudio speaker designs have paid close attention to important technical criteria such as correct transient and phase response, while unlimited dynamics, high resolution, natural tonal balance as well as proper damping of all resonance have always been sought.

The reputation Dynaudio has established as one of the world's most respected manufacturers of high quality loudspeaker systems is the direct result of ambitious targets and the fortuitous position that Dynaudio has in our ability to realize our qualitative goals through the control of our own in-house research, development and production of drivers and cabinets.

When a new Dynaudio loudspeaker is introduced, it is the result of something truly special – always being predicated by a new technological innovation that takes the performance to a higher level. In the early 1980's, Dynaudio set the standard with the Compound models, whose perfect sound quality was supported by incredibly small physical dimensions. This was later followed up by the Contour Series, which raised the performance bar even further through continued technical refinements and innovations. This series, with its elegantly hand-built real wood cabinets and advanced sonic performance is still thrilling music lovers to date. The Evidence Master took the absolute high-end audiophile standard to a whole new dimension, something which has been repeatedly confirmed by its reference status throughout the world.

Now, after several years of hard work and intensive research and development, in conjunction with the experience gained and innovations spawned from the development of the Evidence, a new Confidence Series has been created. Every detail of the construction of these new models is the direct result of innovative development of unique Dynaudio technologies whose functional requirements were integrated into a clear-cut aesthetic concept.

Sound architecture

The Dynaudio Confidence embodies the new architecture of sound. Striking shapes and elegant lines underscore a completely new, all-encompassing concept, one unique to the company's history: The exterior design resulted directly from the demanding sound requirements set by Dynaudio.

Every detail, be it in design, cabinet construction, or material selection has been chosen strictly through sonic considerations. Elegant form through cutting-edge technology: Ranging from the innovative new Esotar² tweeter, to Dynaudio's now legendary advanced driver technologies, to the rigid sculpted base supporting the slim wooden cabinet, up to the distinctive baffle.

The Confidence defines the contemporary architecture of sound. All design details incorporated into the Confidence models have a functional basis, the Dynaudio expert engineers, designers and developers having precisely translated the purely sonic aspects aesthetically.





Acoustic excellence. **C4**

Acoustic excellence requires sound architectural considerations for every detail: With the Confidence C4, Dynaudio succeeded in a no-compromise realization of the ambitious Confidence concept. From the lavish overall construction right down to the smallest detail, it is always the sonic performance that takes center stage.

Aesthetically pure yet technically advanced – the C4 combines a unique slim cabinet with an innovative baffle design. In the Confidence, a completely new design-concept defines the front of the loudspeaker as a design element in its own right. The multiple-layer high-density baffle yields extremely low-resonance and de-couples the loudspeaker drivers from the cabinet itself. Despite the slim dimensions of the cabinet, this innovative design concept allows for the integration of substantially larger bass driver than otherwise would be possible. Particularly noteworthy are the reinforcement glass panels, which contribute to the characteristically distinct profile of the cabinet. The precisely formed non-symmetrical sides and edges of the baffle itself minimize reflections and distortions while complementing the symmetrical driver array.

By integrating the Confidence C4's dual Esotar² tweeters within a solid, acoustically optimised aluminium module integrated into the baffle, it remains unaffected by potential vibrations from the woofer and mid-range drivers. The frequency response of each tweeter complements the other perfectly to achieve an even yet energetic dispersion. For the woofer and mid-range drivers, the same concept has been employed, which is in itself an important part of Dynaudio Directivity Control (DDC), a technology that significantly reduces floor and ceiling reflections while further enhancing the sound dispersion through the advanced crossover filtering and symmetric driver array.

To enjoy the Confidence C4 is to discover a completely new sound experience: Absolute clarity with tangible depths which captivates with unparalleled precision and true fidelity.

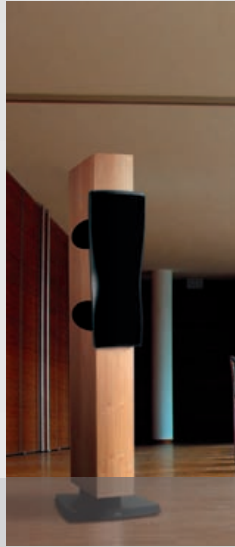




C4



Perfect balance. C2



An ideal sonic architecture is defined by realizing the precise balance between highly complex technology and homogenous sound reproduction. This aspect of design is perfectly demonstrated by the conceptual logic behind the Confidence C2.

The Confidence C2 employs one of the most unusual two-way driver arrangements available: two highly advanced mid-bass drivers and two Esotar² tweeters perform in perfect balance augmented by the DDC technology, similar to the C4 model, to create a captivating sonic synergy which is unequalled by larger loudspeakers even in spacious rooms.

This high level of performance wasn't just achieved through fondness of detail. That is why, in the customary Dynaudio tradition, both master-craftsmanship and minute fine-tuning of the sound are considered so important. Every Confidence is built in Denmark to meticulous standards combining highly advanced computer-driven manufacturing technology with precision old-world hand-craftsmanship. The cabinet is constructed by specially trained carpenters and involves numerous cycles of sanding and polishing by hand during the elaborate finishing process. The result is a luxurious finish that will retain its beauty even after decades.

In order to provide the refined details of Confidence with a solid foundation, the distinctive support plinth is utilized, having been directly derived from that of the award-winning Dynaudio Evidence models. Isolated from resonance, the high-quality terminals are unobtrusively integrated into the sculpted plinth, into which the eight individually adjustable spikes are concealed.

The sound-relevant details and brilliant fine-tuning of the Confidence C2 deliver a perfect sonic balance: a spacious soundstage with absolute accuracy and clarity, with the effortless performance of a completely balanced system. This lies at the heart of true musical enjoyment, inspiring emotion with every note.





C2





Dimensions in sound. C1

Confidence level performance from a compact loudspeaker system ideal for small- or mid-sized rooms: The Confidence C1. Itself a perfect example of Dynaudio's tradition of producing incredible compact speakers, the C1 serves as an ideal building-block for any high-end music or home theater system. Whether employed as mains or surround speakers, they are perfectly complemented by the new Confidence Center and will make listening to multi-channel music recordings or elaborate movie-productions an unforgettable experience. And in a two-channel music system, they deliver a level of performance and refinement that is simply unequalled by any other loudspeaker in its class.

By carefully adapting the Confidence concept to the requirements of a compact speaker, the C1 achieves, both in traditional stereo as in multi-channel/home theater applications, an unrivalled level of sound quality and refinement, with a large soundstage, incredible accuracy and tonal balance, with pinpoint imaging, a natural midrange, and incredible extension at both frequency extremes. The sonic performance is ensured through the first-rate Esotar² tweeter, the powerful mid-bass driver, the cost-no-object crossover, and the innovative cabinet construction.

The striking cabinet uses – as typical for the Confidence models – a forward-mounted baffle that effectively de-couples the driver from the cabinet itself, thus reducing resonance yet allowing for a very slim cabinet that can effectively utilize a larger diameter driver. The entire cabinet assembly rests on a special solid plinth, which can be securely attached directly to the optional Dynaudio Stand², which offers a perfect synergy, both sonically and visibly, accenting the elegant lines of the C1's design. The Esotar² tweeter is housed in an anti-resonant, 10mm thick aluminium frame integrated into the baffle. The design of the mid-bassdriver is equally elaborate: The dispersion-optimised cone is powered by a 75 mm Aluminium/Kapton[®] voice-coil and a high-efficiency Neodymium magnet system. The end-result is not just a powerful, but foremost a precise, and controlled reproduction of music.

The advanced crossover is a first order filter with a 6 dB/Octave slope, allowing a correct phase response and extremely controlled dynamics. All components are selected by both scientific measurement and listening tests, and manufactured with very low tolerances. The entire construction is connected with extra thick copper traces, and the gold plated binding posts by WBT are placed in close proximity to the crossover.

The material and construction details incorporated into the C1 enable it to achieve a level of performance in line with the larger Confidence models, and within a wide range of applications: a homogenous soundstage with rich detail and amazing resolution characterizes a powerful presentation that guarantees a most exciting and emotional home theater or stereo listening experience.





C1



The heart of sound. **Confidence Center**

Expansive multi channel music recordings and perfect movie dialogue and surround effects are experienced at the Dynaudio Confidence level with the C1 and Center. These models set new benchmarks by consequently implementing the advanced technology of the Confidence series:

In the Confidence Center, two coated fabric dome tweeters are integrated into a strong, 10 mm thick aluminium plate to avoid resonance. Both domes are mounted very close to each other, and in conjunction with the specially tuned crossover, offer the benefits of Dynaudio Directivity Control technology (DDC). The effects are greatly reduced reflections from any rooms' floor and ceiling boundaries, allowing a reproduction of a recording to remain true to the original performance.

The two woofers are powered by 75 mm aluminium/Kapton® voice coils and highly efficient neodymium magnets, mounted into a stiff, low-resonance, low-mass aluminium basket. The dual driver arrangement allows a powerful, tight and controlled reproduction of music and sound effects, with a perfectly seamless integration into the soundstage of the main and surround channel Confidence models. This is extremely important in modern movie productions, as the sound-stage foundation is built upon the center channel information.

A characteristic feature of the Center is the cabinet. It is not only built to the same aesthetic and quality level as the larger Confidence models, but also integrates an intelligent but easy to use mechanism to adjust the dispersion angle of the cabinet as a whole. This construction allows a perfect sonic integration and placement into any individual home cinema set up, regardless of the height of the Center and screen. The plinth itself uses an advanced aluminium construction, underlining the cabinet's shape as well as providing the ideal resonance-reducing stability.

The level of sound quality is true to the Confidence name. Due to the same original Confidence technology, the Center also provides a solid and tight, but dynamic performance as well, with an excellent reproduction of the finest musical and sound effect details. In combination with the new compact model C1 as a rear speaker, multi channel performance can be realized at the high Confidence sound quality level – always ensuring you the best seat in the house in an extremely musical theatre, one capable of convincing even the most ambitious cinema enthusiast or critic.





CO



Not even the highest level of loudspeaker technology will realize its full potential under certain adverse circumstances. The most common problem usually is found within the listening room and its particular acoustic properties. Dynaudio's vast experience in developing professional studio loudspeakers gave reason to believe that many recordings have tremendous potential for quality, but that during playback it is often lost due to the effects of room reflections. Floor and ceiling boundary reflections and cancellations are especially troublesome, as they induce timing anomalies, colorations, and essentially undermine the quality potential within the recording.

Dynaudio successfully employed a reflection-minimising dispersion technology into the award-winning Evidence models. The advanced technology, Dynaudio Directivity Control (DDC), has now been implemented into the Confidence. The vertical driver array and sophisticated crossover circuitry work to reduce floor and ceiling reflections by nearly 75%, allowing the signal to be reproduced perfectly – free of room induced coloration or distortion.

Integrating dual tweeters is a fundamental aspect of the DDC technology: the two Esotar2 tweeters complement each other perfectly within their respective frequency ranges and deliver a smooth, narrow vertical dispersion into the room, nearly independent of the distance to the listening position. The DDC topology allows the Confidence model loudspeakers to effectively be utilized both in small as well as very large rooms, as their controlled dispersion will allow the speakers to release their full sonic potential, as well as that of the recording.

The Confidence models deliver an amazing performance that reaches beyond the boundaries of the listening room to reveal pure sound, perfectly and naturally.



Technology

Sonic perfection in any room: DDC





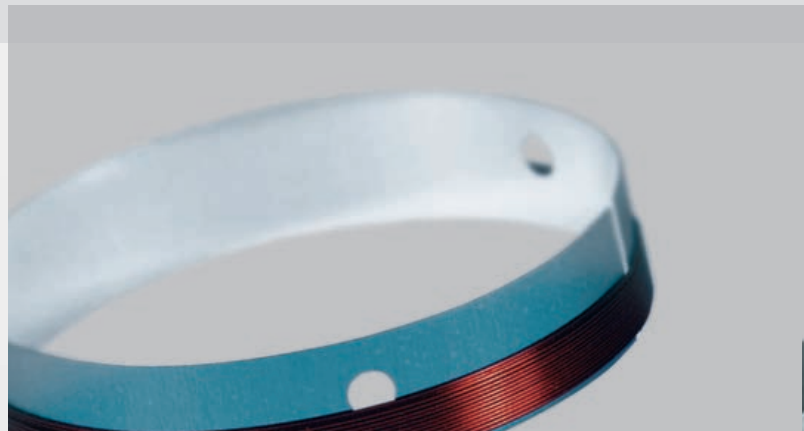
Technology

Dynaudio has not only become famous for its high quality audiophile loudspeaker systems, but perhaps as much, if not more so, for its outstanding driver technology. One of Dynaudio's crowning achievements is the original Esotar soft-dome tweeter - widely regarded as one of the best tweeters in the world. Through ongoing research and development and the implementation of new materials, a successor model has been developed, improving on the lofty performance of its venerable predecessor:

the all-new Esotar².

The Dynaudio R&D department continuously experiments with new types of materials and production techniques in engineering to achieve improved results. However, no principle has yet proved superior to the classic soft dome tweeter. With ideal resonance control over the widest frequency range, as well as excellent neutrality and resolution, the Dynaudio soft

Large diameter, ultra low-mass voice-coil



Legend in the making: Esotar²

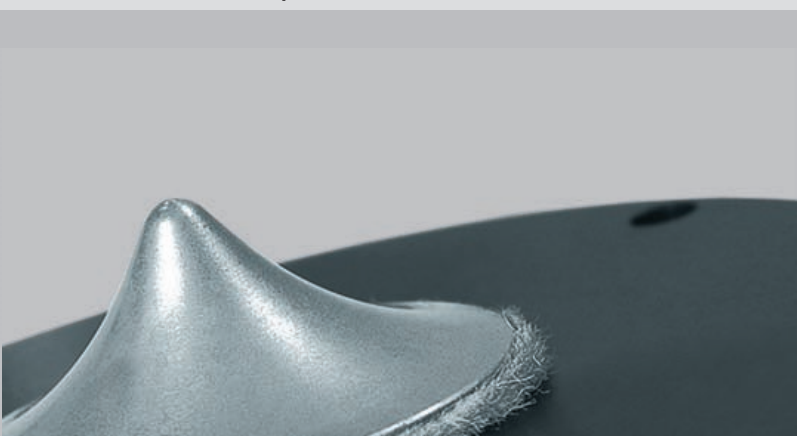
Some tweeters define high standards that serve as benchmarks for competing constructions. Through various improvements, Dynaudio developed a new tweeter with an even higher performance in the Esotar². The new magnetic material is extremely efficient and together with the light weight aluminium voice coil yields an ultra-dynamic impulse response of the soft dome and extremely high power handling. A new type of soft dome material with a special new coating is used, providing a smooth frequency roll-off without peaks or dips, even up to the highest notes. This capability is a great advantage, especially when considering the wide frequency range of new high-resolution digital audio formats such as SACD and DVD-Audio.

To allow the use of a first-order crossover typical of Dynaudio designs, a controlled damping of the resonance frequency is required. Therefore, a damping chamber is integrated onto the rear of the tweeter,

deadening any back-wave energy through an acoustic absorber. Additionally, the voice coil is controlled by a magnetically dampening oil, acting much like a sensitive shock absorber. The amazing result is a flat impedance curve at the resonance frequency. Only with this type of construction it is possible to avoid the commonly used, sharp (18 or 24 dB per octave) crossovers in favour of the technically superior, 6 dB per octave crossover network that enables a perfect impulse response.

New materials and an intelligent construction enabled the size of the Esotar² to be significantly reduced despite its performance being dramatically improved over the original Esotar. The reduced size allows the driver array on the baffle to be compact, keeping both tweeters within close proximity, an important consideration in the DDC (Dynaudio Directivity Control) topology, and thus allowing an ideal dispersion pattern to be achieved.

Aluminium cone piece eliminates rear reflections



Tweeter assembly cross-section





Dynaudio

Founded in Denmark in 1977, Dynaudio originated as a group of engineers who held a penchant for music and loudspeaker design. They came to the mutual conclusion that even high-quality loudspeakers were not able to reproduce recorded music without coloration. At that time, distortion, timing differences, phase shift and slow impulse response were not only audible, but also clearly measurable. One of the reasons for these short-comings was that there were only a few companies developing and manufacturing loudspeaker technology in-house. The few manufacturers that did, not only limited their development to few measuring procedures, but failed to consider music-relevant factors.

The Dynaudio team knew from its technical background that the only way it could produce a truly good loudspeaker product would be by developing its own drivers. In the town of Skanderborg, Denmark they set forth to realize their ambition to create a new generation of loudspeakers, based on the company's own technological developments. The first, and most important step was to avoid the accepted, conventional means of material, technology and manufacturing prevalent at that time, and to instead realize Dynaudio's own ideas in order to avoid the known disadvantages of the conventional methodology. The results achieved were innovations in each detail of the loudspeaker, which formed the technical basis for Dynaudio. Many of the original Dynaudio developments and innovations form the core of the driver technology responsible for the advanced Dynaudio sound quality enjoyed today.

The Dynaudio tradition has always been particularly committed to the state-of-the-art in high-end loudspeaker designs. Even in the demanding premium car hi-fi business, and the most advanced recording studios of the world, Dynaudio loudspeaker technology is highly respected and widely utilized – a result of the demanding QS 9000 Quality Certification that the Dynaudio production has achieved, and the high performance of the products that result.

Innovation is still paramount at Dynaudio: The DDC technology (Dynaudio Directivity Control) has established the advanced Evidence Master and Evidence Temptation models as reference loudspeakers around the world. Today, every Dynaudio loudspeaker incorporates advanced Dynaudio technology directly evolved from the company's flagship product developments.



Technical specifications

	C1	C2	C4	Center
Sensitivity	(2.83 V/1 m): 85 dB	(2.83 V/1 m): 88 dB	(2.83 V/1 m): 89 dB	(2.83 V/1 m): 87 dB
IEC Long Term Power Handling	170 Watt (4 Ohm)	300 Watt (4 Ohm)	400 Watt (4 Ohm)	300 Watt (4 Ohm)
Impedance, Nominal	4 Ohm	4 Ohm	4 Ohm	4 Ohm
Bass Principle	Reflex	Reflex	Reflex	Reflex
Weight	11 kg	40 kg	50 kg	20 kg
Dimensions (W x H x D)	200 x 445 x 430 mm 7.9 x 17.5 x 16.9"	224/420 x 1550 x 445 mm 9/16.5 x 61 x 17.5"	250/420 x 1750 x 445 mm 10/16.5 x 69 x 17.5"	800 x 270 x 380 mm 31.5 x 10.6 x 15"
Crossover Slope	6 dB/oct	6 dB/oct	6 dB/oct	6 dB/oct
Tweeters	1 x 28 mm soft dome	2 x 28 mm soft dome	2 x 28 mm soft dome	2 x 28 mm soft dome
Woofers/Midrange	1 x 17 cm MSP-cone, 75 mm pure aluminium- wire voice coil	2 x 17 cm MSP-cone, 75 mm pure aluminium- wire voice coil	2 x 15 cm MSP-cone, 38 mm pure aluminium- wire voice coil	2 x 17 cm MSP-cone, 75 mm pure aluminium- wire voice coil
Woofers	–	–	2 x 20 cm MSP-cone, 75 mm pure aluminium- wire voice coil	–
Connection	CE-comp. WBT gold binding posts			
Crossover	Separate chamber for network, glassfiber-reinforced PDB with extra copper-thickness, capacitors with low loss dielectricum, zero compression resistors			
Cabinet	Cabinets made of high damping MDF sandwich, front baffle made of 40/16 mm MDF sandwich, adjustable feet with internal spikes, grille covers supplied			

(Kapton® is a registered trademark of Dupont)

Subject to alterations.

The Confidence models are available in maple or rosewood veneer. Several other natural veneers are available upon request per special order. All shown images of models and veneers can not give a true impression of the finesse and structure of a real wood finish.

All aspects relating to the performance criteria of the Confidence line are strictly controlled. Along all stages of the entire production process – from raw material selection to final assembly and quality control – Dynaudio thoroughly inspects each parameter along every step of the way. In turn, all Dynaudio loudspeakers are adorned with a five-year manufacturer's warranty.

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