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Electra® 1000 Be 2



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Electra 1000 Be 2

That which stirs emotion

The Electra line 1000 was founded on an obvious fact: to make the heritage, technologies and performance once reserved for Utopia Be more accessible ... on an economic level of course but not only. We wanted to create a high-end line of loudspeakers in harmony with the integration requirements in the nowadays interiors, compact, attractive, sleek and balanced at the same time. We added an "object" dimension to our high-end line that entirely became a decoration element, while our technologic patrimony is maintained to tend towards very high-end sound definition...

We entrusted our ideas and our innovations to a design group in Paris Pineau & Le Porcher who sketched out the first contours in order to unite style and performance.

In 2009, this loudspeaker line has known a major technologic evolution with new drivers and new settings for even more sophisticated and dynamic sound and has become Electra 1000 Be 2. New finishes are appearing: Basalt and Champagne, in addition to the timeless Black Lacquer finish (piano black) and in 2011, another finish comes to complete the Electra 1000 Be 2 offer: Mahogany. But this line even goes further by offering the choice of color customization, on-demand. In the end, Electra 1000 Be 2 is a complete line for high-fidelity and home-theatre, easy to install and use. A speaker that truly stirs emotion through its sophisticated esthetics, customizable and its stunning performance.

Pleasure, innovation, tradition, be the best: this is the approach we have with our products, from the worldwide reference loudspeaker Grande Utopia EM to the Focal XS multimedia system. These are Focal values, the four dimensions of "the Spirit of Sound".



IAL Be tweeter

The full range treble

In 2003, the Utopia line inaugurated a revolutionary technology: the pure Beryllium inverted dome for which Focal now holds two manufacturing patents. Ultra-light (21mg), but rigid (7 times more rigid than titanium or aluminum for the same volume-mass), Beryllium possesses absolutely fantastic properties to create an exceptional tweeter. Add to this the capability to surpass 40kHz without break-up, and at high-pressure levels. Last but not least, it stands out with excellent linearity thanks to its high internal damping, which inhibits resonance and distortion at the far reach of its frequency range.

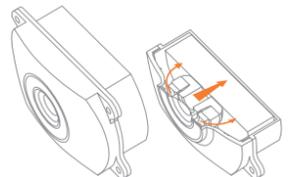
For Electra 1000 Be 2, we decided however to direct our attention to an entirely other direction, as we felt that there remained other challenges

to pursue and that the 40kHz that we had achieved was certainly sufficient for perfect reproduction of treble.

Our new goal with the IAL (Infinite Acoustic Loading: the creation of an extremely high-bandwidth tweeter, that would be able to descend in frequency as far as possible, in order to take over from the midrange as early as possible. The stakes: create a design where the critical frequency range of 2000 to 5000Hz, where the ear is most sensitive, can be reproduced by an ultra-light tweeter dome. The 2009 version, which dome diameter goes from 25 to 27mm, optimizes the recovery of the cut-off frequency and improves dynamics and precision.



> Focal is the only manufacturer in the world to master all the steps in the fabrication of a pure Beryllium dome on its production site, from development and optimization to forming (patented process).



> The unique structure of the IAL tweeter permits a free space behind the dome of the tweeter, charged with a practically infinite air volume. The resonant frequency, which is the principal factor limiting a tweeter in the midrange, is considerably lower.

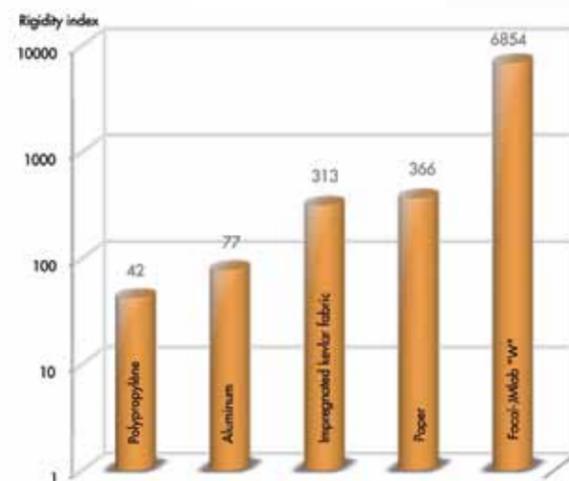
The "W" composite cone

Mastery through our know-how

The W composite sandwich technology is one of Focal's most famous inventions, an innovation that's still at the top, because its progress has never stopped. The "W" cone was born at the same time as the Grande Utopia of 1995. At the time, the goal was to get closer to the theoretical ideals that consisted in getting simultaneously 3 essential qualities: create a material that is both ultra-light and more rigid than any other that benefits from high internal damping to avoid any sound coloration. The "W" sandwich was the perfect answer.

Seven years later, the "W" knows a patented major evolution. Combining glass coats of different densities and in different layers (from 1 up to 3 on the front and back sides of the cone), but also internal foams of different thickness, we are learning how to sculpt the response curve of the drivers and to control one by one the cone characteristics whether it is used for a woofer or a midrange. The third generation of "W" cone appears with the Utopia 3 line with laser trimming that permits to progress once again. The laser's precision permits cut

outs that were impossible so far, that's a major point when we consider the influence of the edge profile on the driver characteristics. Electra 1000 Be 2 benefits once again from the Utopia 3 innovations and very soon after the launching of this reference line. That's one of the numerous advantages we can get from designing and making the drivers on the same site in France: we can quickly adapt an important innovation to all our ranges.



> With equal cone mass and diameter, the rigidity and flexibility index of the "W" sandwich outclasses the most employed materials.

> Electra 1028 Be Black Lacquer.



> Single-skin, 3" (8cm) midrange in "W" composite cone, for the centre channel Electra CC 1008 Be.



> Double-skin, 7" (18cm) woofer in "W" composite cone, Electra 1038 Be.

Gamma "γ" structure

When style and technology meet, harmony arises

Entrusted to the design house Pineau & Le Porcher with which Focal collaborated on its other speaker lines, we wished to create a pure line of simple, natural beauty with Electra 1000 Be 2, where each style element would harmonize with the technical necessities to create the best speaker possible. With Electra 1000 Be 2, nothing comes for free. Each curve is studied to bring a tangible response and correction to a given problem. The tweeter housing and coupling is a moulded, solid piece of aluminum alloy, which represents an ultra-stable mechanical reference, with absolutely no vibration.

Every aspect of Electra 1000 Be 2 has a purpose, such as the non-parallel side panels which lighten the geometry

and diffuse standing waves, or the base that conceals the otherwise unattractive port, while at the same time radically reduces the phenomena of dynamic compression in the lower bass. But the principal innovation would be the rounded aluminum baffle of the loudspeaker. This form, which is taken up in the shape of the tweeter housing and into the side panels, suppresses hard edges which are usually responsible for diffraction or edge effects surrounding the tweeter. A novel and original approach to the high-end loudspeaker segment which lends all its strength to the Electra 1000 Be 2 line.





>Electra CC 1008 Be: 3"(8cm) IAL tweeter on a solid aluminum housing.



Multi-channel sound

We haven't forgotten the magic that is Home Theatre!

New high-definition video formats are arriving, with matching high quality sound: little compression of weak signals, very high dynamics, very wide bandwidth, exceptional definition... home theatre sound finally achieves "high-definition". The multi-channel Electra 1000 Be 2 series was designed in this spirit in order

to allow truly exceptional performance at all levels, whether it be in terms of definition, power and obviously 3D coherence. All our technologies that are so appreciated in stereo, such as Beryllium domes, IAL, "W" sandwich cones, Advanced (Gamma) structure, lend themselves admirably to this new high-resolution multi-channel environ-

ment... And for the rest, we innovated with a three-way centre channel speaker, with perfectly controlled directivity, BASH® subwoofer, Bi/Twin surround sound speaker which enables a multitude of configurations...

Subwoofer

24bits digital processor, extended setting possibilities, BASH® amplifier, W cone, the SW 1000 Be is of high technology nature and has numerous possibilities. The processor control through the remote can now become inactive to avoid the interference with other remote controls.



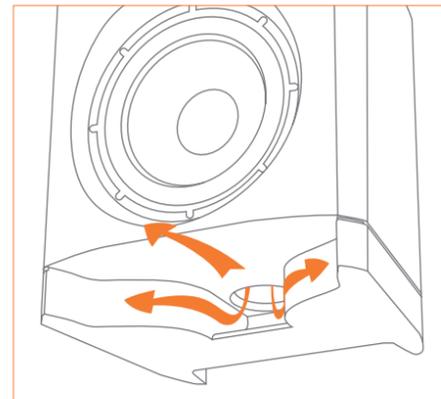
> The wireless remote control permits access to all digital parametric filtering functions and menus of the subwoofer.

> The expanded profile of the port pushes the air noise turbulence responsible for distortion and dynamic compression down into the infrabass.



Center

The Electra CC 1008 Be center speaker takes up the same principle as the Focal three-way phase geometry for a homogeneous distribution of energy. The timbre, perfectly in symbiosis with the sonic signature of the other speakers in the Electra 1000 Be 2 series, the very minimal horizontal directionality and exceptional linearity over a large frequency band constitute many rare qualities for these truly exceptional centre speakers.

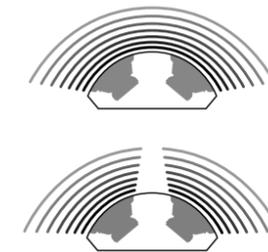


> Electra SR 1000 Be

Surround

The Electra SR 1000 Be effect loudspeaker is a true speaker-cabinetwork masterpiece with an incredibly complex assembly. The design of its round baffle in solid MDF was dictated by the same philosophy as the other loudspeakers in the Electra 1000 Be 2 line: eliminate the cabinet edge effects in terms of diffraction, bandwidth non-linearity as well as a poorly-controlled directivity.

> Thanks to the Bi/Twin selector, the SR 1000 Be can function in two different modes. It is ideal to create a 6.1 or 7.1 configuration with only one pair of speakers or for multi-purpose listening of home theatre and SACD. For the enthusiast of bipole or direct effects : this switch is an offering of true simplicity.



Finishes

Electra 1000 Be 2

> Standard



Black Lacquer:
High Gloss Lacquer

Champagne:
Light Cherry, 11 coats



Black Lacquer:
High Gloss Lacquer

Basalt:
Dark Cherry, 11 coats



Black Lacquer:
High Gloss Lacquer

Mahogany:
Red Cherry, 11 coats



Black Lacquer:
High Gloss Lacquer

Black Lacquer/Black Lacquer:
High Gloss Lacquer

All the Electra 1000 Be 2 models can be personalized on demand (see the conditions with your local dealer).

Integration

Living with your loudspeakers

The traditional Electra 1000 Be 2 loudspeakers are completed by 4 high-performance In-Wall and In-Ceiling loudspeakers, which benefit from the advance made with Electra 1000 Be (drivers and filtering). The magnetic leveled grille of the In-Wall loudspeakers is very thin and can be painted, integration as well as easy mounting are optimized. Optional MDF mounting frames are available in black or white lacquered finish, or in rough wood ready-to-be-painted. They enable easy

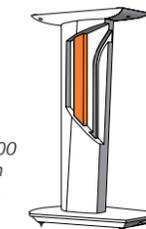
On-Wall mounting of the In-Wall or On-Wall loudspeakers when flush-fitting is not possible or simply not wanted. The Electra 1000 Be 2 line offers a dedicated stand: S 1000 High Gloss, in Black Lacquer finish, with an internal metal bar. The loudspeaker is directly fixed to the stand to guaranty the greatest stability and a perfect mechanical coupling.



> Powerful Neodymium magnets placed all around the loudspeaker support the very thin and discreet metallic grille of the In-Wall loudspeakers.



> Electra 1008 Be on the S 1000 High Gloss stand.



> Structure of the S 1000 High Gloss stand with an internal metal bar.



> Electra IW 1003 Be mounting on optional wall frame.

Electra 1000 Be 2



The Electra 1008 Be embodies Focal's know-how in terms of high-end compact loudspeakers. Added to the essential qualities of the 1007 Be, a more spacious and natural sound image, improved definition and more precise bass. The high power-handling enables it to work in rooms of big dimensions.



The Electra 1027 Be was a flagship of the Focal range, the 1028 Be goes even further, especially in the bass with the dual port Powerflow system. The dynamic leaps forward to be in harmony with the generosity and definition of the midrange-treble register that has always been a reference. A compact floorstander with irrefutable charm.



As the whole Electra Be 2 line, the 1038 Be benefits from new components and settings. The awesome strength of the three 7" (18cm) woofers, endless power, is now added to the new qualities gained in terms of sound image and definition. A true weapon of mass seduction.



The Electra CC 1008 Be follows the same evolutions as the loudspeakers so that the tones are in perfect harmony. Low horizontal directivity, high power-handling, definition and precision are part of the common points of Electra Be 2.



> Also available, the Electra IW 1002 and IC 1002 equipped with an Aluminum/Magnesium tweeter



Not much evolution for the SR 1000 Be that benefits from the 3 third "W" cone generation. But its exclusive "Be/Twin" structure with dual input permits to use the SR 1000 Be as well as in a 5.1 system (in bipolar mode) as in a 7.1 (in dual mono mode) without increasing the number of effect loudspeakers in the Home Theatre room.



24 bits digital processor, 600W BASH® amplifier, 13" (33cm) "W" woofer, the Electra SW 1000 Be offers high-level performance with a 18Hz cut-off and a 119dB sound power. The SW 1000 Be now benefits from a remote control lock when infrared conflicts appear with other boxes.



True technology concentrate, the Electra IW 1003 Be integrates the best of Focal: Beryllium IAL tweeter, Utopia 3 latest generation "W" cones, OPC filtering, passive radiator, this reference In-Wall loudspeaker is the high-end traditional alternative loudspeaker. On-Wall mounting available with optional frame.



Its sophisticated design enables it to compete with any high-end loudspeaker thanks to its pure Beryllium inverted dome tweeter and its latest generation W cone woofer loaded with integrated sealed volume. The highest-fidelity in invisible version.

	Electra 1008 Be <i>Champagne finish</i>	Electra 1028 Be <i>Black Lacquer finish</i>	Electra 1038 Be <i>Mahogany finish</i>	Electra CC 1008 Be <i>Basalt finish</i>
• Type	2-way bass-reflex bookshelf speaker.	3-way bass-reflex floor standing speaker, Powerflow.	3-way bass-reflex floor standing speaker.	3-way bass-reflex shielded center speaker.
• Drivers	6 1/2" (16.5cm) "W" midbass. 1 1/4" (27mm) pure Beryllium IAL inverted dome tweeter.	Two 6 1/2" (16.5cm) "W" woofers. 6 1/2" (16.5cm) "W" midrange. 1 1/4" (27mm) pure Beryllium IAL inverted dome tweeter.	Three 7" (18cm) "W" woofers. 6 1/2" (16.5cm) "W" midrange. 1 1/4" (27mm) pure Beryllium IAL inverted dome tweeter.	Two 6 1/2" (16.5cm) "W" woofers. 3" (8cm) "W" midrange. 1 1/4" (27mm) pure Beryllium IAL inverted dome tweeter.
• Frequency response (±3dB)	46Hz - 40kHz	34Hz - 40kHz	33Hz - 40kHz	55Hz - 40kHz
• Low frequency point (-6dB)	41Hz	28Hz	26Hz	50Hz
• Sensitivity (2.83V/1m)	89dB	91.5dB	93dB	91dB
• Nominal impedance	8 Ohms	8 Ohms	8 Ohms	8 Ohms
• Minimum impedance	3.9 Ohms	3.5 Ohms	3.3 Ohms	4.1 Ohms
• Crossover frequency	2 200Hz	350Hz / 2 200Hz	230Hz / 2 200Hz	500Hz / 2 200Hz
• Recommended amplifier power	25 - 150W	40 - 300W	40 - 400W	40 - 200W
• Dimensions (HxWxD)	15 3/16 x 10 3/8 x 13 3/4" (385x264x350mm)	43 11/16 x 10 3/8 x 13 3/4" (1 110x264x350mm)	49 3/16 x 11 15/16 x 15 3/4" (1 250x303x400mm)	9 1/4 x 24 x 13 3/4" (235x609x350mm)
• Net weight	33lb (15kg)	72.6lb (33kg)	112.2lb (51kg)	41.8lb (19kg)

	Electra SR 1000 Be <i>Black Lacquer finish</i>	Electra SW 1000 Be <i>Basalt finish</i>	Electra IW 1003 Be <i>White finish</i>	Electra IW 1002 Be <i>White finish</i>
• Type	2-way sealed bipole/twin mono effects speaker	Active bass-reflex subwoofer	3-way sealed enclosure In-Wall speaker.	2-way sealed enclosure In-Wall speaker.
• Drivers	Two 6 1/2" (16.5cm) "W" midbass. Two 1" (25mm) pure Beryllium inverted dome tweeters.	13" (33cm) "W" woofer.	6 1/2" (16.5cm) "W" passive radiator. 6 1/2" (16.5cm) "W" woofer. 3" (8cm) "W" midrange. 1 1/4" (27mm) pure Beryllium IAL inverted dome tweeter.	6 1/2" (16.5cm) "W" midbass. 1 1/4" (27mm) pure Beryllium IAL inverted dome tweeter.
• Frequency response (±3dB)	72Hz - 40kHz	20Hz - 150Hz	49Hz - 40kHz	60Hz - 40kHz
• Low frequency point (-6dB)	59Hz	18Hz		
• Sensitivity (2.83V/1m)	91dB	Subwoofer features	Features	Features
• Nominal impedance	4 Ohms/8 Ohms	Adjustable LPF: 50Hz to 150Hz (24dB/oct.), 48dB/oct. adjustable subsonic filter, adjustable phase, Boost mode, Night mode, 3 user memories, LFe/Stereo/Digital enter. Remote Control Locking System	Sensitivity (2.83V/1m): 90dB Nom. impedance: 8 Ohms Protection: autoreset Polyswitch fuse Recommended amplifier power: 25 - 240W Midrange and tweeter adjustment: - 3dB / 0dB / + 3dB Crossover frequencies: 400Hz / 2000Hz Cut-out dimensions (HxW): 26 1/8 x 10 3/8" (664x262mm) Depth from wall: 3 7/8" (99mm)	Sensitivity (2.83V/1m): 88dB Nom. impedance: 8 Ohms Protection: autoreset Polyswitch fuse Recommended amplifier power: 25 - 150W Tweeter adjustment: - 3dB / 0dB / + 3dB Crossover frequency: 2600Hz Cut-out dimensions (HxW): 14 15/16 x 10 3/8" (379x262mm) Depth from wall: 3 7/8" (99mm)
• Minimum impedance	3 Ohms/6 Ohms (bi/twin)			
• Crossover frequency	2 400Hz			
• Recommended amplifier power	40 - 200W	600W (750W max.) BASH® amplifier		
• Dimensions (HxWxD)	15 3/8 x 17 x 7 1/2" (390x430x190mm)	21 1/16 x 19 11/16 x 17" (535x500x432mm)		
• Net weight	27.7lb (12.6kg)	92.4lb (42kg)	22lb (10kg)	14.1lb (6,4kg)



> 24" (60cm) High Gloss S 1000 stand.

All of the models in the Electra 1000 Be 2 range (except SR 1000 Be) are available in Basalt, Champagne, Black Lacquer and Mahogany finishes. But may not be available in some countries and/or in some retail outlets. Other special finishes on demand.