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Welcome to the 2011 edition of our Buyer’s Guide to High-Performance Loudspeakers, brought to you by The Absolute Sound and Hi-Fi Plus. This issue is chock full of 31 full-length speaker reviews, covering products that range in price from the $600 Silverline Minuet Supreme to the $199,000 MBL 101 X-Treme—and everything in-between.

These reviews have been specially selected from the pages of The Absolute Sound and Hi-Fi Plus to bring you our top choices covering the widest spectrum of products, technologies, and prices. Whatever your budget or listening-room size, you’re sure to find just the right loudspeaker for you. Once you’ve used this guide to create your short list, visit your local specialty audio retailer to audition your candidates yourself and let your ears decide.

Although the speakers in our Buyer’s Guide cover a staggering price range, they have one thing in common that sets them apart from mass-market loudspeakers—they were all designed by skilled and caring enthusiasts. Every single one of our selections is a labor of love by a musically oriented engineer who tried to extract the best performance from his product. These designers are all driven by an obsession with sound quality, no matter what the loudspeaker’s price. They will try different drivers, cabinet materials, crossover parts, and internal wiring until they are satisfied that no further improvements are possible. This is as true for a $600 high-end speaker as it is for a $199,000 one.

This approach is radically different from the way mass-market speakers are created and sold. These “mid-fi” speakers—which often cost more than true high-end products—are created in the speaker companies’ marketing departments to hit certain price points and appeal to particular demographics, not replicate the sound of live music. The engineers at such companies simply carry out the marketing department’s directives. When they are finished with the designs, a “cost engineer” starts cutting corners in the design to increase the profit margin. These speakers feature lots of large drivers, big cabinets, and offer high “perceived value” at the expense of delivering real musical satisfaction.

By contrast, the high-end speaker is everything it needs to be—and nothing more. No gimmicks, no marketing buzzwords, and no hype. Instead, the high-end speaker will deliver your favorite music wonderfully reproduced night after night. So no matter what your budget, musical tastes, or listening environment, starting off with a true high-end design will virtually assure you of selecting a musically satisfying loudspeaker. And in this Buyer’s Guide, we present 31 such candidates from which to choose.

Good listening.

Robert Harley
ON THE HORIZON

Great New Loudspeakers Coming Your Way

Neil Gader

Focal Bird 2.1
The Bird 2.1 is an ultra-compact design composed of small, two-way satellites connected to the “Power Bird,” which serves as a unified amplifier, 24-bit/192kHz upsampling DAC, and subwoofer in a single housing. Supplied with a Focal Kleer Technology wireless dongle, Bird 2.1 interfaces with the Apple iPhone, iTouch, and iPad, providing uncompressed wireless audio. An optional USB dongle ($99.95) expands wireless connectivity to include any computer with a USB output. The user-friendly system includes a unified remote control and will accept a variety of analog and digital connections, both hard-wired and wireless. The units can be positioned horizontally, vertically, or even mounted on a wall.

Price: $995. audioplusservices.com

PSB Speakers CS1000
A new category for PSB, the all-weather CS1000 is designed for open spaces with rugged, weatherproof construction. Its durable features include a thick, UV-resistant polypropylene cabinet, an aluminum grille, and rustproof terminals with a rubber cover for protection from the elements. Equally important are its multiple mounting options, based around a unique, highly flexible dual-axis bracket that allows the speaker to be perfectly positioned and aimed, even in tricky spaces. The speaker's two-way system includes a 6.5" woofer with a clay/ceramic injection-filled polypropylene cone and rubber surround and a 1" titanium dome tweeter to deliver full-range music reproduction. Additional features include a unique wire management system, a paintable enclosure and grille, and five-way, gold-plated binding posts.

Price $499 (all prices per pair). psbspeakers.com
I recently realised that I have reviewed no fewer than six Focal speakers for Hi-Fi+ over the years, so I can't hide my general admiration for them. For me, the most interesting have always been those designated Be, as that suffix denotes the speakers that use their famous Beryllium tweeter, first seen in the second generation Utopia collection more than six years ago. To my ears, this inverse-domed unit not only instantly set a new standard but also made many other speakers sound dull and dated. Initially, it was only seen in the flagship Utopia models, but variations were soon available in the more affordable Electra range. The unit's high-frequency extension has never been in doubt, but in more recent versions, Focal has extended its working range downward, further into that territory usually covered by two-way stand mounts by the bass/mid driver. There was a lucidity and tonal illumination to the balance of those new speaker models; one that I felt would soon carry over into a new Utopia range, and when it appeared.

The Micro-Utopia Be has been my personal loudspeaker choice for several years, employed in countless reviews. It is a testament to Focal that, until recently, I hadn't found any other stand-mount speaker that could match its unique balance of attributes. I have heard other superb HF units of course. The ribbon in the Eben C1, the twin-ribbon in the JAS Orsa, Piega's extraordinary magnetostatic mid/hf driver in the TC 10X and the Scanspeak ring radiator in the Wilson Duette are all excellent in themselves, but it is their design implementation that really counts. Both the Wilson and the Eben are so successful because they are superbly integrated with their respective cabinets – and with the very different bass/mid drivers they sit above.

Fast-forward to summer 2008, thirteen years after the very first Utopia series appeared and the rumours that Focal have been working on the third generation range are confirmed as the future perfect...

Chris Thomas

Focal Diablo Utopia

Chris Thomas
Running-in and a reader health warning...

The rather striking pair of red Diablos you see in the photographs were not the actual pair I reviewed. Due to schedules, logistics and RG's (thankful) insistence that I was supplied with a fully run-in speaker, I used a black pair for the listening. These, as I understand it, had been soundly and continuously thrashed for some considerable time, so they would be ready to go when I first plugged them in. As you see from the review, I loved them. But then I took delivery of the red ones and heard just how bad a pair of brand new Diablos can really sound. The difference between the two versions was simply staggering. So, on no account audition a pair of these speakers that have not already had extensive use, because if you do then you will certainly wonder what all the fuss is about and that would be a real shame.

The Cabinet

The cabinets are made in the Burgundy region of France, at Bourbon-Lancy in a factory that looks and smells like the studio of an instrument maker, though MDF and interesting veneers are their materials of choice, as opposed to exotic hardwoods. The whiff of wood, glue and lacquers permeates the various sections of this old artisan shop that started life building fine furniture in 1939. I watched the cabinets for the Diablo take shape and pass through complex cutting, gluing, sealing and sanding stations before finally being ready for painting and final finishing, prior to being shipped two hours south to St Etienne for driver installation. Focal's design goal is to ensure that all of the magnet's power should drive the cone rather than moving the cabinet. Where the first Utopia range featured lead-lined cabinets to add mass, the second series saw the lead removed in favour of what they call Gamma construction. This aimed at providing enough stiffness to resist internal vibration by using massive cabinet walls. The third generation though, takes these concepts much further. Now the whole structure has been re-thought with the aid of resonance analysis and vibration cartography that shows a three dimensional representation of the cabinet's movement under load. Take a closer look at that bass enclosure and you will see that the Diablo has a far more complex, tapering shape than the Micro. Sheer mass though is not the only answer, despite having a 50mm baffle. The cartography data analysis also allowed them to strategically locate internal bracing to keep the cabinet walls as inert as possible without having to resort to panels of absurd thicknesses. The result is a significantly more effective and altogether more elegant solution. The reflex system survives but has moved and is now a laminar slot port on the front of the cabinet.
beneath the larger driver rather than between it and the tweeter.

The Drivers
The W-sandwich driver was one of the key elements of the original Utopia line. This laminate cone is based around a foam core, of varying thickness according to application, and ultra-thin glass coats layered front and rear, from one to three deep. In this way Focal can shape the response curves of the drivers and choose the damping levels, whether it is to be used as a midrange or bass driver. The new Utopia range still employ this construction but, critically, the cone edge is now precision laser cut with the exact edge profile required, before being glued to the roll surround. This is a key factor in improving driver performance and consistency, as the accuracy of this join is absolutely crucial to the driver's behaviour and Focal are extremely keen to point out the huge performance gains this expensive procedure has bought about. The arrangement of Power Flower magnets on the rear of the Diablo's 165mm woofer remain, but these have also been modified, along with the chassis, spider and voice-coil, aimed at reducing magnetic leakage and increasing driver efficiency.

The Electra Be range was the first time Focal have ever supplied. It's solid 40mm MDF base is considered by Focal to be vital to the unit's stellar performance. The range now consists of the Diablo bolts directly onto the steel top-plate of the sand-filled aluminium pedestal and the angle of the speaker's time-aligned baffle is continued through the rake of the stand. If you have a wooden floor I would suggest that you use the heavy-duty spikes provided, with floor protectors, as the alternative of rubber inserts softens the speaker's remarkable leading edge clarity. When it comes to positioning, room layout will obviously be a consideration, but generally the advice must be to operate them in as much free air as space affords to allow them room to breathe and certainly keep mirrors the shape of the cabinet.

<table>
<thead>
<tr>
<th>Dimensions (WxHxD)</th>
<th>258 x 431 x 427mm</th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
<td>20kg</td>
</tr>
<tr>
<td>Lacquered Finishes</td>
<td>Warm Grey, Piano Black, Imperial Red</td>
</tr>
<tr>
<td>Price</td>
<td>$13,990/pr. (with stands)</td>
</tr>
</tbody>
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The build quality and finish is exemplary. The Diablo does what it does to such startling effect. The tweeter sits in its own enclosure with the same profile as the bass cabinet, the cavity behind the unit tuned to act as a Helmholtz Resonator at the resonant frequency of the tweeter itself, thus damping the impedance peak. Damping this resonance with the Helmholtz reduces distortion considerably and its effect is felt throughout the bandwidth. The build quality and finish is exemplary. The Diablo bolts directly onto the steel top-plate of what is unquestionably the best stand that Focal have ever supplied. It's solid 40mm MDF base
everything that passes through and resolve them as loose representations of instruments that you could never really mistake for reality, if you know just how raw the real thing actually sounds. This is where the Diablo absolutely excels. That tweeter reaches down into areas where big, damped cones usually operate and shows how it should be done, simply by articulating the voices, speed, delicacy and tonal character of each instrument more accurately. Its life, subtlety and textural range are remarkable and makes the bitter, squeezed astringency of many other hf units sound like sucking a lemon through a tennis racket. So, everything sounds brighter and crisper and this has repercussions in terms of pure note control. Leading edge articulation is fantastic. From the high impact of the first energy input, there is no compression and no sense that the speaker is muting the development at that single point in time and it carries on right through the note and into the longest and purest decay that I have heard. But it is also a speaker with remarkable density and the glowing luminescence it throws onto the instruments is not remotely thin or diluted as a result. The difference this makes to the stability of piano alone is enormous. It has a quite striking result. The difference this makes to the stability of the competition and they too are very good, of the cymbal through the Diablo. As I mentioned before, this speaker has a sense of reality that is extremely rare and it is also loose and supple when it comes to rhythm. Any time signature is opened up with superb control and this gives insights into phrasing and timing within that framework that is the equal of any speaker I have heard. The way they are totally responsive to rhythmic emphasis and ultra sensitive to "pushes" where the tempo gets an accentuation of the beat means that their portrayal of the subtleties of movement within a piece is also totally addictive.

The Diablo creates a soundstage that is so broad and deep that you can practically walk in and look around, reflecting the their transparency and “see-through” character. This is not a conservatively voiced speaker. When you are listening in the near-field, as I do, the mid-band and high-end is a little forward, but I wouldn’t change a decibel of it because it’s intimacy, immediacy and stunning clarity draw you deeper and deeper, delivering a very close physical relationship to the musicians and their performance. With this tweeter installation in their armoury it would have been so easy for Focal to have come up with a speaker, full of resolution and micro detail, that was in some way clinical or even academic to listen to, but they haven’t. What they have made is unquestionably one of the great high-end stand mount speakers available today. Some will think it is the best, but I have heard some of the competition and they too are very good, underlining just how meaningless the notion of “best” really is. There are always considerations of personal taste and system electronics, individual demands and circumstances. I love listening to music through the Diablo because its musical potential is virtually unlimited. It works equally well with all musical styles and genres and I believe that, at its price, it is a bit of a steal. Achieving all of these things means that it is certainly demanding when it comes to matching electronics and it will absolutely reward the sort of care taken in system building and installation that RG and I have been writing about for a while now. But the payback is pure musical involvement and enjoyment and there is no substitute for that, regardless of cost.