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The Complete Audiophile Magazine



ARCHIVES MostWanted RECORD REVIEWS AD INDEX CONTACT SHOW REPORTS



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Audio Acoustics – Sapphire Ti-C SE Loudspeakers Seriously Musical Speakers from the U.K.

April 2008









Richard Gray Power Company - High Tension Wires (power cords) SilverSmith – Palladium digital cable Stereovox - XV2 75 Ohm Digital cable

AC Conditioners

Richard Gray Power Company – IsoGray System

Accessories

Audio Acoustic Nano
Pucks – energy
transfer / isolation
devices
Audiotop Digital
Cleaner
Fanfare FT-1 FM
Tuner
Goldmund Cones
Ultra Resolution
Technologies isolation platform

Solid Steel equipment rack Walker Valid Points & Discs

EARLY INTRODUCTION

The CES can be a particularly good event, not just for seeing and hearing new products but also for the opportunity to network and reconnect with friends, colleagues and other industry folks. It was during the 2006 CES that I was introduced to Daniel Barnum of Half-Note Audio. At the time, he was the importer for a line of breathtakingly built though very expensive loudspeakers from a UK-based company called Audio Acoustics. After much discussion, Daniel arranged for me to receive a pair of the company's \$128K Sapphire Ti-C SE loudspeakers for review.

Quite frankly, given the price of this speaker, I looked forward to assessing its design and performance. Both speakers arrived safely housed in shipping containers. After hauling them around to the back of my home, where we could easily place the speakers into my listening area, I then assisted (OK, I mainly watched) as Barnum carefully removed each speaker from their containers. I appreciated having someone who could to do the heavy lifting as well as handle these speakers so carefully and meticulously.

Each speaker comes permanently fitted with spiked cones. While this is a nice feature, it definitely added to the challenge of moving them around and placing them in my preferred listening position. Fortunately, Barnum was quite familiar with how to best maneuver them and got them positioned so we could check them out and make sure they were operating properly.

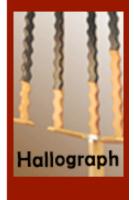
Upon my initial visual inspection, I was very impressed and could tell these Audio Acoustic Sapphire loudspeakers were solidly built and finished. I was anxious to start doing some listening. But first, Daniel rather carefully and methodically took a series of measurements from both the side and rear walls to determine where he felt might be optimal placement for these speakers. In the end, the speakers were placed at nearly the same spot that my reference ESP Concert Grand SI loudspeakers were.

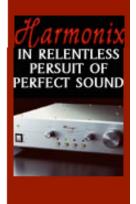
Along with the speakers, Daniel also brought Audio Acoustics' topof-the-line cables: the WOW Resonance interconnects and speaker cables, as well as several AC cords. Additionally, there were special Audio Acoustics discs called Nano Pucks used for isolation and energy transfer for the speakers. In order to assess the overall effectiveness of these products, we systematically placed them in my system one at a time.

DESIGN APPROACH - TECHNICAL AND VISUAL

Speaking with the designer Shabir Bhatti, I quickly sensed his deep and serious passion for immaculate speaker design as well as how best to execute his theories for reaching the highest levels of sonic purity. But just as impressive was the attention to detail in the speakers' flawless aesthetics. The pair I received came in the superb finish called Titanium Metallic. Additionally, their overall fit and feel, and very good looks, including the angular lines of the speaker, along with its slender profile, help give the speaker a sleek elegant look. Being able to easily integrate these looks into just about any room configuration or decor is an absolute plus and semathing the designer obviously took into consideration.







According to Bhatti, the design – in respect to his loudspeakers - is the result of intense research and development to produce a loudspeaker with no compromise. His design approach specifically covers important areas such as: enclosure, port, diffraction, drive units, resonance control, cables, crossover network and floor coupling. Specifically, his design approach addresses removal of multiple resonances that are typically overlooked in various commercial designs with the ultimate goal being to offer a speaker with dramatically superior dynamic range along with as high a level of naturalness possible.

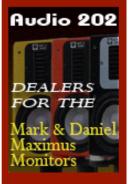
In particular, the Audio Acoustic Sapphire's enclosure is a six-layer laminated cabinet incorporating three types of membrane, each with its own specific characteristics, along with stainless steel panels. The specific purpose of this design is to control vibrations - not simply add mass and stiffness. This design also effectively addresses the elimination of cabinet coloration and enclosure distortion. Additionally, these speakers incorporate a port on the lower front of the speaker. Fortunately, I was unable to detect any ill effects so often noted with speakers having a port design. This port was uniquely designed for optimum airflow control and for eliminating various aspects of internal air compliance factors.

Careful attention has also been given to produce a structure addressing cabinet edge diffraction along with internal shaping to eliminate internal standing waves, specifically in conjunction with the third membrane. Also, a time-aligned driver layout enhances the point source approach of the speaker. Audio Acoustics seeks out the very finest and most technically advanced drive units with the goal, according to the designer, to employ drivers that have diaphragm motion that is strictly pistonic and free from resonance across a wider bandwidth than the frequency range the drive unit is required to operate.

Also, the unique sapphire diaphragms used have only a fraction of the mass of conventional drivers, yet are purported to boast superb levels of stiffness compliments of complex magnet structures. Also according to the designer, Audio Acoustics uses drivers with titanium voice coils resulting in distortion elimination, high definition and resolution with superb transient power and extended, organic bass. As stated by the designer, one of his primary goals is to produce a "quiet" speaker where only the sounds from the driver diaphragms are heard and not accompanied by extraneous sounds caused by uncontrolled resonances or vibrations.

Perusing the Audio Acoustic loudspeaker website, I found loads of information on Bhatti himself; his design theories and concepts but perhaps more importantly his reasons as to why he decided to build the Audio Acoustics Sapphire loudspeaker in the first place [here]. Shucks, one may never justify how a loudspeaker can claim a \$128k retail price ticket but after reading and digesting all the data behind such a terrific product, it did help me in understanding Bhatti's design and his company Audio Acoustic, a lot better.









In the area of cables, the Wow Resonance cables are an extension of Bhatti's research and attempt to create system synergy for his loudspeakers. The network crossovers contain, according to Bhatti, the finest component parts available with near zero-tolerance silver capacitors and air-core inductors. Additionally, says Bhatti "they incorporate top quality silver with extensive use of resonance-controlling membranes. They are then torqued into place to form a harmonious compound sealed structure."



Lastly, the spikes employed are a 3-point, floor-coupling system designed to address superior energy isolation. The spikes are machined from steel, receive repeated hardening and are nickel-plated (and polished). According to Bhatti, this process produces a hardness close to titanium resulting in a durable point capable of supporting the heavy speakers. These are then coupled to the Nano Pucks which are designed for energy transfer and isolation control.





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INITIAL OBSERVATIONS & GENERAL IMPRESSIONS

After experimenting with placement, I found the Audio Acoustic Sapphire loudspeakers performing their best at 3.5 feet from the sidewalls to the center of each speaker and just slightly less than six feet from the rear wall. This was complemented with slight toe-in which results in the speakers firing directly at the sweet spot. This placement provided a sound that was best in terms of soundstaging and overall tonal balance. Initially, there was a slight over emphasis in the bass, seemingly due to the interaction of the Audio Acoustic Sapphire's port with my room. But once the speaker placement was optimized, this condition diminished significantly and for all intents and purposes, became a non-issue.

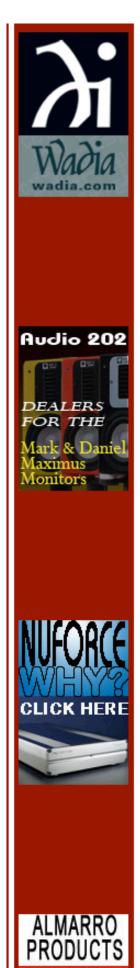
At only 89.5 dB efficient, with a 4 Ohm impedance told me these babies may like power and the Bel Canto Ref 1000s might be the ticket. First thing I noticed was how wide and open the soundstage appeared. This, with imaging that proved spoton particularly where music emerged in a very dimensional manner and gave an authentic impression of real instruments and voice. Experimenting with the Nano Pucks placed under the Audio Acoustic Sapphires proved the overall bass performance could be altered slightly. By contrast, with the speakers spiked directly to the floor (i.e., carpeting over a concrete slab), the bass seemed to go deeper and with good control. However, with the pucks in place, the sound had a slightly more neutral tonal character and without any loss of control. After going back and forth, my final overall preference was to listen with these shiny discs in place.

Next on my list of observations had to do more with the midrange and how well it integrated with the upper mid/bass region. This seamless transition enhanced the overall coherency of sound. In addition, speed, articulation and detail retrieval in the mid-band frequency also proved outstanding. Rich musical colors emerged effortlessly and with a high degree of accuracy. Listening to different instruments, whether acoustic bass or piano was quite revealing. Similarly, different brands of cymbals were easily distinguishable as well.

Moving on to the higher frequencies, I was treated to a sound that was open, pure and extended. There was also plenty of detail, air and delicacy, with no apparent cutoff at the higher frequencies. Again, the integration with the midrange was seamless, with a level of natural coherence that helped the speakers provide a wave of sound that was musically authentic and convincing. These were my initial impressions and as good as things were, the best was yet to come. With additional system tweaking including cable break in and substitutions, room treatment via the highly effective Shakti Hallographs, and various other tweaks, the sound continued to improve.

At this point, a quick comment about the impact of installing the Audio Acoustics cables is in order. Clearly and without much hesitation, the differences over any of the cables I had in place prior to installing the Audio Acoustics cables, was nothing short of shockingly good. In fact, the overall improvement was so noticeably better, that I quickly understood why the designer wanted me to have these for the review.

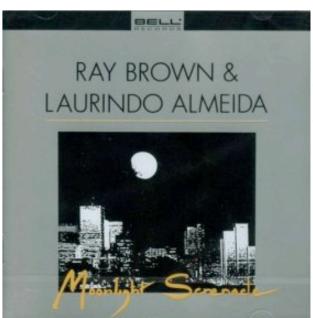
With everything now ready for prime time, I started inviting other golden ear audiophiles and various music-loving friends over for a listen and they were all impressed. Even those who tend to be the more critical admitted that this was certainly one of the most impressive speaker systems they had ever heard. In my opinion, although the Audio Acoustic Ti-C SE's are indeed a two-way design, their level of musical performance is so impressive that you'll believe that it's a full-range employing far larger drivers.



BEYOND FIRST IMPRESSIONS - GETTING DOWN TO SERIOUS BUSINESS

Although it's been some time since I had the wonderfully musical ESP Concert Grand SI loudspeakers at my place, for the most part, this is the sound that has stayed in my head and serves as a reference point. Given the fact that the design of both ESP and Audio Acoustic speakers are quite dissimilar I was quite curious as to how well the Audio Acoustics could bring back the immense musical pleasure I had experienced with the ESP speakers. As time went by, and I learned more about the Audio Acoustic speakers, my level of understanding increased making my overall assessment that much more interesting and equally enlightening.

One area where these loudspeakers aren't fully capable of competing is in the very lowest frequency range where the dynamic impact and slam isn't quite on par with that of much larger speakers. Overall bass performance is quite good and extends deeply with great pitch, articulation and musicality. If you want to really push them to achieve significantly higher volume levels, there will be a slight dynamic compression of the lowest bass fundamentals. For me, it was an issue of quality vs. quantity, and as much as I would perhaps enjoy just a bit more umph in the lowest frequencies, what I got kept me plenty satisfied and hardly ever did I notice any real deficiency. Realistically, there's just so much dual seven inch drivers can do in reproducing lowest bass octaves. However, they do go quite low and what they provide is so pleasingly good that it's easy to overlook that one area of their performance. Instead the Audio Acoustic Sapphires provide the right type of bass that is bothy highly musical and serves as a reasonable facsimile of the live event (or recording).



A great example of acoustic bass through Audio Acoustic Sapphires the loudspeakers is the Ray Brown & Laurindo Alameda recording "Mondscheinsonate/Round About Midnight" from their CD Moonlight Serenade [Jeton]. The sound is deep, round, robust, full and thundering when called upon, but also delicate, clean and articulate. Listening to other superb acoustic bass players also easily reveals similar sonic capabilities of these speakers. Try listening to Charlie Haden on Quartet West [Verve], track 2 titled "Body & Soul" for a splendid performance or Christian McBride on the CD by the James Williams featuring Clark Terry, titled Talkin' Trash [DIW Records 470150], the authority as

well as the timbre accuracy on both recordings will most certainly capture your attention.

From the mid bass through the higher frequencies, music from the Audio Acoustic Sapphires was authoritatively lifelike, with a solid tactile quality through and through. The very special qualities of transparency, speed, resolution and ambience retrieval are all of such high levels that I found it relatively easy to fall under their hypnotic spell. The Audio Acoustic Sapphires easily reveal the quality of source material and can help determine whether you have things right with your upstream electronics, cables and other aspects of your system.



In particular, listening to various tracks from jazz pianist Gonzalo Rubalcaba's wonderful CD titled The Blessing, was so enticing that it leads to repeated listening. THE BLESSING GONZALO RUBALCABA In addition, it was also very easy to discern the subtle movements and shifting of the pedals as well as any other movement by the performer. Throughout this recording, piano fortissimo held together and stayed totally cohesive. The overall effect is one of holistic linear coherency with no discernable across the frequency spectrum. At higher volumes, the stage holds together with a nicely organic, tactile feel and hardly any observable compression.





Female vocals are rendered through these speakers so beautifully that I found myself looking for more and more of the really good recordings by a variety of singers. In particular, listening to the sassy Sarah Vaughn's recording titled Crazy and Mixed Up [Pablo], is an excellent example of hearing one of the most expressive voices in jazz history. Through the Audio Acoustic Sapphire, all the subtle nuances that make Miss Vaughn's singing style so unique were easily laid out before me. Similarly, both the vocals and piano playing contained on Diana Krall's CD Only Trust Your Heart through [Verve], came the Acoustics Sapphires most convincingly. In

particular, the transient attack, fullness and left to right completeness of the keyboards along with imaging transition are revealed most accurately.

On other instruments such as brass or sax, again the Audio Acoustics Sapphires sensational shine. Listening to the trumpeter Sean Jones on his CD titled Roots [Mack Avenue], or the high energy and very talented Jeremy Pelt on his CD titled Close to My Heart [Max Jazz], the Audio Acoustic Sapphire's capture every little nuance of the trumpet as well as keeping full control of the blat and splat of their respective styles.

Overall, the Audio Acoustic Sapphires clearly demonstrate an ability to get out of the way and are clearly one of the best loudspeakers I've heard in this regard. As a result, the stage becomes transparent allowing various instruments (and voice)

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to simply hang in the air with their own acoustical space around them. Each is then integrated into the whole for a full and complete musical presentation.







CONCLUSION

My overall assessment of the Audio Acoustics Ti-C SE speaker is easy. Based on my experience with them, I can easily say the Audio Acoustic Sapphires are truly special transducers. Strictly as a music-lover, I have found their performance to be well beyond what I would have imagined. In an attempt to categorize these loudspeakers, I'd consider them among the finest made today. As for its elevated price tag, it will no doubt be accessible to only the most discerning and well-heeled of individuals. However, solely based on the merits of their performance, these speakers warrant serious attention if you can afford them.

During my time with the Audio Acoustic Sapphires, I have enjoyed them immensely and had many hours of musical pleasure, as have my wife and many others. In my opinion, the Audio Acoustic Sapphire Ti-C SE loudspeakers provide the gestalt of music playback in the home and are undeniably convincing. Their overall musicality conveys a special spatial wholeness that is absolutely thrilling. My one regret is not having been able to hear them with the type of amplification the designer strongly encouraged me to try. In particular, single-ended (SE) tube amps such as those from Wavac. Still, I can assure you that the Audio Acoustics Sapphire Ti-C SE is one of the very finest and most sophisticated speakers I've personally heard. They excel in providing music as it should be heard and for that, I am extremely pleased to have had the opportunity to hear, live with and enjoy them. When they leave, it will be a sad day for sure.





SPECIFICATIONS

Type: Two-way floor-standing loudspeaker system

Dimensions: 290W x 1226H x 390D mm Frequency Range: 19Hz - 33KHz (+/-3 db)

Bass-Mid Drive Units: 2x133cm2 sapphire ceramic; titanium voice coil

High Frequency Drive Units: 30mm High Resolution Wide Dispersion Ferro fluid Sapphire ceramic

concave

Key Features: Six-layer treble membrane laminate enclosure; sapphire tweeter; sapphire diaphragm bass/midrange with titanium voice coil, 'Resonance Base' silver wired; optimum vented airflow control port; custom wound crossover components to specific tolerances; 'nine-nines' wiring.

Sensitivity: 91db/1W/1m Impedance: 4 ohms (nominal) Amplifier Compatibility: 30W or more Nominal Power Handling: 100W Weight: 300 lbs per system pair

Price: \$128,000 U.S.

Standard finishes: Advanced Specialist 16 coat Gel Suspension Finish™ – Carbon Black, Titanium Metallic a, Krystal Metallic a, Mirabelle Maroon

MANUFACTURER

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