



# Clark Tactile Research

Volume 1, Issue 2

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## Clark Synthesis Research Dept. Acoustical Problem Fixes

Clark Synthesis' research department has been looking past the fun factor of their technology, and found many new and useful applications. In their findings are remedies for many of the age-old problems that audio enthusiasts through the years have been struggling with—room acoustics.

Within the listening environment in any home are common problems, and adding a subwoofer complicates this issue. From 150 Hz on down a room with a simple single subwoofer will have nulls that are audible with a trained ear. Seating and subwoofer placement is critical, important frequencies can be totally missed and degrade the system no matter how sophisticated. If more than one subwoofer is added or multiple speakers in the

same bandwidth are used (two large front speakers with sizable woofers and two subwoofers) the problem is compounded substantially. Null points from room interaction with speakers placed in the room, and sheetrock resonance contribute to many problems now able to be corrected by Clark Synthesis Tactile Sound Transducers™. This technology allows for a lowering of volume in a room but still delivering a greater feel of high volumes through the efficient hearing technique of bone conduction. In addition to lowering the SPL, Clark Synthesis has also found that the null points that are so prevalent and that make subwoofer placement in rooms a Russian roulette (guess your best

even as a professional), a sure thing, again through bone conduction. Clark's accuracy comes through as the null points are filled in with the Tactile Sound™ allowing the listener to hear the pure full spectrum of low-end audio without phase cancellations and reduced sheetrock resonance's at the same time. Clark Synthesis believes that every theater system should use this technique as a key tool for achieving a better sounding system and is essential for those systems installing acoustical treatments allowing the other treatments to function at their best.

## Clark Synthesis has cure for many acoustical problems and low-fidelity blues

Clark is in a category of their own by making a product that is far more than a shaker. Engineering a product that develops the same kind of fidelity as a studio monitor or fine home speaker, something a shaker can only wish it could do. Clark Synthesis Tactile Sound™ considers their Tactile Transducers "full-frequency shakers", unlike the other products on the market that

have limited bandwidth and fidelity. Clark Synthesis has been pushing the technology of Tactile Sound™ for almost ten years.

In Clark's opinion, an acoustical problem will prevent the chief goal of fine home theater that of *suspending disbelief*, with a great reduction of the acoustical problems solved. Clark can help in suspending disbelief by giving

the intended sonic signal to the listening and viewing audience.

Efficiency, accuracy, fidelity, and output is the industry leader Clark Synthesis Tactile Sound Transducer™. Clark Synthesis has been the leader in Tactile Sound™. We are how every other device is measured. **Full-Frequency, Full-Fidelity, Full-Contact Audio™.**