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Subject: Re: Subwoofer Crossover

Posted by [Wayne Parham](#) on Thu, 26 Jan 2012 14:06:03 GMT

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NWCgrad wrote on Wed, 25 January 2012 19:59I will buy the miniDSP, especially since I can use REW and auto program the device for in room equalization.

I wouldn't set it for auto-equalization unless you connect an array of microphones that sample several points in the room. But you could surely use more than one microphone, and then I think it would work pretty well.

You just don't want it to EQ based on one microphone because it will equalize for that single position, which may be right in a node. It would be terrible for the system to increase output at frequency where room modes sucked out the SPL at the microphone position.

NWCgrad wrote on Wed, 25 January 2012 19:59I think when I retire from the Navy in 6 yrs and buy a house I will look to get rid of the 4 Pi's and upgrade to the 7 Pi's so I can recycle the JBL and B&C drivers. In the appropriate room, how significant is the difference?

The bass is the same, and the treble is the same. Midrange is where the difference is. A constant directivity cornerhorn projects the sound smoothly through the entire audio band, with the launch point being the apex of the corner. So there is no self-interference from the nearest boundaries. This makes the midrange incredibly smooth and realistic sounding, and it also makes imaging spooky good.

Sometimes you can get a set of traditional mains and flanking subs to sound almost as good. It depends on the room and the speaker setup. But you can never get any other kind of speaker to be better than constant directivity cornerhorns - not direct radiators, not horns, not planers or dipoles. Constant directivity cornerhorns remove the dependency on flanking subs to smooth the lower midrange - The problem of self-interference off the nearest boundaries simply doesn't exist in constant directivity cornerhorns. So it really is the best approach possible, in rooms that have the right corners.