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Subject: Re: Three 4Pi's in Basic Black for Home Theater Build Thread

Posted by [BigmouthinDC](#) on Sat, 05 Feb 2011 01:51:09 GMT

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It has been some time since I posted any information in this thread but this week I have been playing with a new measurement system I purchased to test my speakers, some planned sub-woofers, room set-up, and the overall acoustical design of my space. I picked up the OmniMic from Parts Express.

My thoughts relative to the Pi's are to do some of my own measurements of the effect of the SMX screen in the audio path and the impact of adding some foam to the waveguide.

To start this is my first pass at measuring one of the 4Pi's in place in the wall with the microphone about 3 ft away. This is with the screen in place:

I hope Wayne doesn't mind but I'm copying in one of his published graphs:

I'm actually pretty happy that what I built looks to me about what the Master designed. I wonder about that sawtooth uptick in the higher frequencies that I can no longer hear. Maybe some screen interference issues.

When I finish building some new sub-woofers I'll be taking down the screen and at that point I can measure without the screen fabric.

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