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Subject: Jim and Bill - PT2 array gain

Posted by [Allan](#) on Sun, 15 Aug 2004 21:38:08 GMT

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Jim and Bill, I posted this on the DIY site, but thought it may benefit some people here too. I took a basic look at the frequency response of my line arrays today just using test tones and my RS SPL meter. I know it's crude, but it's all I have. I was mostly looking for trends and balance between the subs, the mids and the tweeters. In another thread down below, Jim and Bill are discussing the PT2 array gain issues, and Jim mentions that there will be array gain in the lower regions of the PT2's operation but not in the upper frequencies and from what I've measured here, he's absolutely correct. Right down to the 10kHz cutoff:-) Setting the XO to 2.5kHz, I have essentially flat response out to 8kHz with the tweeters rising about 3-4dB over the mids. At 10kHz, there's a sudden drop of about 6dB and it drops another 4dB on the way out to 20kHz. I checked both channels and even swapped out a different CD player to make sure the one I had in there wasn't on the fritz. I know, not very scientific and probably not very accurate, but it definitely shows a trend. I was checking about 3 feet in front of the array at about 80dB SPL. Just an FYI; I don't have any answers or solutions at this point, I'm just relating what I'm seeing. I can bring the tweeter levels flat with the mids at the XO point with my crossover level adjustments (those are really nice to have:-) but the dropoff above 8kHz will still be there.

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