Subject: Re: Interesting New Line Array Design
Posted by Eric J on Thu, 13 Aug 2009 04:34:20 GMT
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I think that comb filter distortion pretty much depends on who is listening.

Since Jim Griffen has clearly indicated that human perception drops of dramatically and increasingly from 10-20 khz, and increasingly with age. Depending on how much each individual can actually hear of those high frequencies is dependent on what they mean to each person.

This is what Jim actually said about it:

"Comb lining will dull the highs and will be most noticeable in the lack of air (dull highs) especially as you move off axis. Essentially, the high frequencies are rolled off as the ensemble of the tweeter outputs don't add up but start to cancel. Now the ear is less sensitive in the upper octave (10-20 kHz) you may not observe the full impact of this effect. But if you compare to an array that is properly designed, then there is no comparison as the proper array will yield a more airy (and accurate) sound."

Jim Griffin on PE technical discussion board : 11-21-06

I've read Russell's response, and in fact have a pdf saved copy in my files. All I can say is that if you take a system adjusted for reduced CFD and one without that scriptor and listen to them side by side you will hear a difference. Unfortunately Russel probably can't hear it. He's way older than me and I'm 60.

Eric J.