Subject: Single tweeter line aray vs Line array with multiple tweeters
Posted by goldyrathore on Mon, 23 Nov 2009 07:07:07 GMT
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Hi,

I am in the design phase of building a line array. Its an active 2 way active system (with separate subwoofer crossed at 120hz).

Line height 60". Mid drivers are 2" full rangers and tweeters are Dayton ND20FA.

I have two choces :-

a) A line of 2" mids tightly placed covering floor to 60" with a smaller line of 20 ND20FA centered vertically.

b) A line of 2" mids covering floor to 60". Just one 20 ND20FA centered vertically.

How do the two designs compare given that extended range of the mids easlily allow a crossover as high as 6Khz?
More specifically, I need to know whether there is a good reason to have a line of tweeters above 6 Khz as in a) or can I get away with b) without any noticable difference.
I intend to listen by sitting at one place so the different attenutation rate of tweeter and mid in case of b) does not bother me.

Thanks in advance,
Goldy