Subject: Line array with single ribbon tweeter
Posted by andreas paulsen on Tue, 31 Aug 2004 19:25:49 GMT
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Hi I am the lucky owner of a pair of philips rsq8p ribbon tweeters usable from 1400Hz and up at 94dB/1w/1m. the diaphram is 4 inches long. Would it be possible to use it with a mid line array with a suitable number of units to match the limited vertical dispersion ?.CheersAndreas

Subject: Re: Line array with single ribbon tweeter
Posted by Bill Fitzmaurice on Tue, 31 Aug 2004 20:15:42 GMT
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The shift from the narrow vertical dispersion of the near field to the wider vertical dispersion of the far field with a four inch (.1 meter) high radiating plane will take place approximately .02 meters from that plane at 1400 Hz. You don't need to use multiple mid drivers to match that; a single 6 1/2" midbass would be quite adequate, and you only need be concerned if you're actually listening at a distance of .02 meters or less. As far as the narrowing vertical dispersion at progressively higher frequencies is concerned, that's a good thing; don't worry about it.

Subject: Re: Line array with single ribbon tweeter
Posted by andreas paulsen on Tue, 31 Aug 2004 20:20:19 GMT
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OK, got your point. No need for several drivers here.Anyway would it be worthwhile trying a mid array with a single ribbon tweeter, with a somewhat higher crossover point than 1400Hz.cheersandreas

Subject: Re: Line array with single ribbon tweeter
Posted by Bill Fitzmaurice on Tue, 31 Aug 2004 20:31:47 GMT
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I wouldn't. You'd like to have both sets of elements working in the same fashion; with an array of mid-basses and a single tweeter you'll end up with the mid-basses working in the nearfield while the single tweeter is working in the farfield and it just won't sound right. The best idea is to either go all array or all point source. In your case I'd go MTM, to get the midbass sensitivity up closer to that of the ribbon.

Subject: Re: Line array with single ribbon tweeter
Posted by andreas paulsen on Wed, 01 Sep 2004 12:23:11 GMT
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MTM is what i have now with 2xjbl 2118 and a Stageaccompany ribbon.The philips ribbon is collecting dust at the moment.

Subject: Re: Line array with single ribbon tweeter
Posted by Bill Fitzmaurice on Wed, 01 Sep 2004 15:14:37 GMT
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That's a nice rig, but perhaps a bit of overkill for the average livingroom. I suspect the Philips would match well with a pair of Focal 7K4412s or Scan Speak 21W/8554 or 18W/8546

Subject: Re: Line array with single ribbon tweeter
Posted by andreas paulsen on Wed, 01 Sep 2004 15:32:57 GMT
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you are definately right, there is a nice speaker by stig erik tangen using the philips with some seas excell drivers./andreas