
Subject: Array Tweeter SelectionPosted by [Username](#) on Thu, 31 May 2007 03:55:27 GMT[View Forum Message](#) <> [Reply to Message](#)

I need help choosing a tweeter for a line array project. I am concerned about the following: 1. Minimum cross-over frequency 2. Sound quality 3. Cost

After reading (and re-reading) Dr. Jim Griffin's "Design Guidelines for Practical Near Field Line Arrays" it seemed reasonable to narrow the list by considering only tweeters that are capable of crossing over below 2,000Hz. You would think that this would be easy to objectively compare using manufacturer and vendor supplied information. I officially give up my solo attempt after a week of free time spent trying to reconcile conflicting information. The following ribbon and planar tweeters seem to be easily acquirable. The Frequency Response and Minimum Cross-Over frequencies are the best I could derive from manufacturer and vendor supplied data. The Cost listed is just a general reference based on what I jotted down in my notes. I didn't note where I found the pricing info, so I'm sure it is inaccurate. It may, however, be beneficial in comparing relative prices (i.e. early elimination of the gorgeous Raven piece).

THE LONG LIST

Aurum Cantus G2Si _ FR: 1.4K-40K _ Min XO: 2.5K _ Cost: \$90
Aurum Cantus G2 _ FR: 1.4K-40K _ Min XO: 2.5K _ Cost: \$170
Aurum Cantus G3 _ FR: 1.3K-40K _ Min XO: 2.3K _ Cost: \$320
Aurum Cantus G3Si _ FR: 1.4K-40K _ Min XO: 2.3K _ Cost: \$210
Aurum Cantus G1 _ FR: 900-40K _ Min XO: 2K _ Cost: \$400
Bohlender Graebener Neo3(-PDR) _ FR: 2K-28K _ Min XO: 1.2K (line array) _ Cost: \$45
Bohlender Graebener Neo8(-PDR) _ FR: 700-20K _ Min XO: 350-700 (line array) _ Cost: \$60
Dayton PT2B-8 _ FR: 2K-26K _ Min XO: ? _ Cost: \$35
Eton ER-4 _ FR: ? _ Min XO: ? _ Cost: \$280
Fostex FT7RP _ FR: 3K-45K _ Min XO: ? _ Cost: \$80
Fountek NeoCd1.0 _ FR: ? _ Min XO: ? _ Cost: \$60
Fountek NeoCd2.0M _ FR: 1.2K-40K _ Min XO: 2K _ Cost: \$120
Fountek NeoCd3.0M _ FR: 1.4K-40K _ Min XO: 2.5K _ Cost: \$80
Fountek NeoPro5i _ FR: 850-40K _ Min XO: 1.5K _ Cost: \$280
HiVi RT1.3 _ FR: ? _ Min XO: 2.5K _ Cost: \$40
HiVi RT1x-A _ FR: 3K-21K _ Min XO: 3K _ Cost: \$40
HiVi RT1II _ FR: 3K-21K _ Min XO: ? _ Cost: \$40
HiVi RT1L _ FR: 3.5K-40K _ Min XO: ? _ Cost: \$30
HiVi RT-2 Pro _ FR: 2.3K-30K _ Min XO: ? _ Cost: \$150
HiVi RT2x-A _ FR: 1.7K-25K _ Min XO: 1.8K _ Cost: \$80
HiVi RT2II _ FR: 1.7K-21K _ Min XO: 2K _ Cost: \$90
HiVi RT8-II _ FR: 1.5K-20K _ Min XO: 1.7K _ Cost: \$80
LCY 106 / LCY 109 _ FR: 2.2K-60K _ Min XO: ? _ Cost: \$200
LCY 108 _ FR: 2.2K-60K _ Min XO: ? _ Cost: \$190
LCY 110 _ FR: 2K-60K _ Min XO: ? _ Cost: \$200
LCY 130 _ FR: 1.8K-60K _ Min XO: ? _ Cost: \$240
LCY K100 _ FR: 7K-100K _ Min XO: ? _ Cost: \$200
Mundorf AMT2340 _ FR: 2.2K-23K _ Min XO: ? _ Cost: \$390
Raven R-1.1 _ FR: 2K-50K _ Min XO: 3K _ Cost: \$180
Raven R3.2 MMX _ FR: 650-50K _ Min XO: 800 _ Cost: \$1790
Silver Flute _ FR: 3K-20K _ Min XO: ? _ Cost: \$40

That should leave the following short list based on the absolute maximum cross-over frequency of 2,000Hz. **THE SHORT LIST:**

Aurum Cantus G1 _ FR: 900-40K _ Min XO: 2K _ Cost: \$400
Bohlender Graebener Neo3(-PDR) _ FR: 2K-28K _ Min XO: 1.2K (line array) _ Cost: \$45
Bohlender Graebener Neo8(-PDR) _ FR: 700-20K _ Min XO: 350-700 (line array) _ Cost: \$60
Fountek NeoCd2.0M _ FR: 1.2K-40K _ Min XO: 2K _ Cost: \$120
Fountek NeoPro5i _ FR: 850-40K _ Min XO: 1.5K _ Cost: \$280
HiVi RT2x-A _ FR: 1.7K-25K _ Min XO: 1.8K _ Cost: \$80
HiVi RT8-II _ FR: 1.5K-20K _ Min XO: 1.7K _ Cost: \$80
Raven R3.2 MMX _ FR: 650-50K _ Min XO: 800 _ Cost: \$1790

Are there any that should be added to or deleted from the above list based on cross-over frequency? Not to skip ahead to criteria 3 (cost), but I know the Raven has already been eliminated...
