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Subject: Gone active XO

Posted by [Tom R.](#) on Wed, 12 Dec 2007 03:23:24 GMT

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I was lucky enough to borrow a Marchand XM 9 electronic crossover over the weekend and used it in my two-way line array. What a difference the active XO made. Since I got the project running I have been using textbook passive crossovers, that did not sound very good, making an adjustment made some improvement but something else would suffer. The Electronic XO set at 2400Hz and 24 dB slopes improved the tonal balance of the system specifically female voices. The 5-1/2" mid woofers arrays need to be rolled off quick or too much high frequency caused a strained sound that was offensive over time. The Marchand smoothed the mid range out to where female voices sounded the very good. One down side is the single Raven # 1 tweeter is crossed a little too low, so when I crank it up, it starts to distort and I have to back off on the volume. I wish I would have gone to an electronic crossover along time ago, as I do not have the necessary hardware / software tool and if I did not sure I could have come up with something that sound this good. Hopefully I can perform some sound level measurements, get some basic frequency response on paper, and make some adjustments other than making changes with just my ears. Over all I am very encouraged with the use of an electronic XO. Tom R

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