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Subject: Adventures in biamping

Posted by [Chris R.](#) on Sat, 16 Feb 2008 19:28:46 GMT

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All, I finally made it to the next stage of things and bought another amp and a digital xover. All to try out a pair of drivers. The setup goes like this: The big boxes are 4 Pi's with 1.6KHz passive x-overs. The new driver/horns are a Selenium D-250X's on PE horns and Eminence APT-50's on the bigger PE elliptical horns with a 3.5KHz passive. What's really cool, is with the digital x-over, simply by sweeping the x-over freq., I can move the power from just the 4Pi's (x-over at 20KHz), to eliminating the PSD-2002's by going anywhere from 700-1.6KHz and combinations in between. The new horns are somewhat different, not necessarily better or worse. I've included a couple of photos. I've got an RTA/digital EQ showing up so I can see what it thinks about the differences and flatten out both configs. Front view from the back

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Subject: Re: Adventures in biamping

Posted by [Wayne Parham](#) on Sun, 17 Feb 2008 21:12:50 GMT

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Biamping is definitely a good thing. I always do diligence in designing a good passive crossover, because I think that's still the most popular way speakers are used. I want people to be able to use the speakers with a typical receiver or amp, and not need an active crossover and amps to do them. But if you have the gear, it's great to run 'em that way. I wonder which would be better, a passive crossover with Auricap and large pure copper air-core coils or an active analog crossover with generic electrolytics and low-cost op-amps. Or a digital crossover with ADCs and DACs. With active crossovers, you have the benefits of reduced bandwidth in each amp but there is added complexity in the system overall. A digital crossover can easily set delay for any channel, a definite plus for people running bass horns. Lots of variables to consider. On a similar note, I've been using Keith Larson's new WTPro/ST system which uses DSP to create filters from Spice files. It's like having a Spice parser that sets up an active crossover for testing. It's a great tool for crossover design work!