Subject: cross over
Posted by Roland Gama on Thu, 06 Mar 2008 14:55:34 GMT
View Forum Message <> Reply to Message

Hello Wayne,The 12Pi is nearing completion and will post pics when its done.Taking the 12PI and the 4Pi (JBL 2226/ DE 250) and crossing it over using the Behringer DCX2496 digital crossover what would the preferred crossover points for the sub, mid and highs? Also what would the preferred slopes and order?Roland.

Subject: Re: cross over
Posted by Wayne Parham on Thu, 06 Mar 2008 17:42:42 GMT
View Forum Message <> Reply to Message

I would crossover to the subs somewhere between 70Hz and 100Hz. The frequency and slope will depend on the environment, the configuration of speakers and the position of each of them.

fourth-order slope on both. Sounds like there would be a hole but there's not because even

woofers outboard, like an MTTM configuration.

Subject: Re: cross over
Posted by Chris R on Thu, 06 Mar 2008 17:57:35 GMT
View Forum Message <> Reply to Message

and woofers outboard, like an MTTM>> configuration.So often I see 2 and 3 way speakers at shows stacked like there was only one.It always makes me wonder about those that set them up.Chris

Subject: Re: cross over
Posted by Wayne Parham on Thu, 06 Mar 2008 20:01:29 GMT
View Forum Message <> Reply to Message

outboard above and below, i.e. MTTM. That's better than MTMT, which would leave too much

distance between tweeters.For larger installs, a modular line array approach would probably be better, with a square mouth tweeter on one side and a woofer on the other, both being approximately the same size. When vertically stacked, they form a line of closely spaced

different tweeter appropriate to the orientation and application.

Subject: Re: cross over
Posted by Roland Gama on Fri, 07 Mar 2008 06:06:14 GMT
View Forum Message <> Reply to Message

Thanks Wayne.Need a little more on that.Consider the speakers to be a pair of 12pi, JBL 2226 and DE250 without passive crossovers.Then how do I cross this three way system using an electronic crossover (DCX 2496) in terms of 1) Crossover points2) Alignments and3) Slopes ?

Subject: Re: cross over
Posted by Wayne Parham on Fri, 07 Mar 2008 17:21:21 GMT
View Forum Message <> Reply to Message

and tweeter. The midwoofer crossover point low-pass is 1300Hz and the tweeter crossover high-pass is 1600Hz. Add CD equalization for the tweeter, ideally with a curve like shown below:

Subject: Re: cross over
Posted by Roland Gama on Sat, 08 Mar 2008 05:25:50 GMT
View Forum Message <> Reply to Message

Thanks Wayne
