## Subject: Re: Equalization in Arrays Posted by Anonymous on Tue, 26 Jul 2005 15:32:52 GMT View Forum Message <> Reply to Message

Yes.For the NSB/PT2 array {4" midwoofers w/planer tweeters) I'm using anactive setup with the Behringer DCX2496. The first thing I do istune everything by ear using common sense. I sweep the activecrossover range and listen to the music to find the sweet spot llike. I also do individual driver tests where I only listen totweeters and then only listen to the midrange so see if I can hearproblems in this range of frequencies that I selected to make surethere is nothing bad. After doing all these listening tests, I prefered a PT2 crossoverfrequency between 1.5khz - 2khz using the 48dB slope. The steeperslope filters out midrange crud and improves the image. For the NSB high pass I found that 65hz using the 48dB slope workednice. I just sweeped the range and listened to the bass and notedcone excursion at high power to make sure I'm within safety range of the drivers. I set the EQ depending on mood, genre of music, and per individual CD as bad recordings need to be fixed. I'll use a simple example. For jazz/vocals, I cut the ~150hz region on the midrange output ~6dB as ported NSB's are giving me crazy midbass where things fallsoff the TV. The Radio Shack meter peaked at 126dB on a bass guitarlistening test. The tweeter output I boost 6dB @ 8khz shelving high pass. This gives that crispy top end I like when listening to cymbals. To smooth out the midrange sound, I use an input EQ using a Q of 1 and cut the 1khz band about 4.5 to 6dB. 32 midrange drivers is alotof midrange sound and the room is small so I need to tame this downa little.Next, I adjust the output levels because I'm using two different amplifiers, one a home amp, the other a proamp so I need to adjust the midrange level in relation to the tweeter level. In my casel need to adjust the midrange level -6dB to match the PT2. Last, I added delay to one channel, about 15mS to add 'concert hall'effect which gives the music depth. Some genres of music do betterwith no more than 25mS delay. For death metal music where headbanging is required, I set the EQ closer to 'zero'. I turn off the midbass EQ, turn off the tweeterEQ, adjust the input EQ to -3dB cut, adjust the midrange levelanywhere from zero to -3dB. The midbass boom is appreciated in thisgenre of music.

Page 1 of 1 ---- Generated from AudioRoundTable.com