Subject: MTM horizontal arrays
Posted by gravedigger on Sun, 20 Dec 2009 16:37:08 GMT
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I purchased 72 of the Peerless buyouts that PE has:

http://www.parts-express.com/pe/showdetl.cfm?Partnumber=299-250

I also have almost thirty of the Silver Flute YAG20-1 planars at my disposal.

These speakers will be in a dedicated theater that measures 15w x 24d with seating at 13 feet (back of room is empty; nothing to really do there). Subs are a quad IB of Dayton RS390HFs so the low-end is covered. What I'm looking for is insane SPLs and even as important, the WOW factor when people are over. I love building speakers cheaply that perform very well and I know the drivers I'm using aren't the greatest but for home theater the absolute in SQ doesn't concern me. That's what my 2-channel system is for!

What I'm asking is since I have tons of the Peerless drivers would it be beneficial to do two rows of mids in an MTM much like Selah's Symmetricas? I'm thinking room interaction would be decreased due to the off-axis response cancellations that horizontal MTM's provide. Box size isn't a concern. I would be going sealed at 7 liters per driver with 12 mids per side (24 total) and 10 planars which gives a line length of around 77 inches. The enclosures will give an F6 of 80 hz. according to my T/S extraction. Not as low as I wanted, but I will be using a DCX2496 to EQ and cross the subs and I will use it to boost the lines down a little lower and take care of some room effects.

The seating for the theater is a couch for three people so the sound field doesn't have to cover a wide listening area.

If I do build them as a horizontal MTM what are the pros and cons for my application? Thank you very much.