Subject: Surrounds to complement 7pi and 4pi HT
Posted by coctostan on Sat, 31 Jan 2009 00:33:37 GMT
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I'm planning on building L/R 7pi's and a center 4pi.  I would like surrounds that mate up well to the pi front speakers.  Commercial horn surrounds are hard to find.  Short of going with some JBL Pro's the only horn based surrounds I can find are Klipsch's.Has anybody mixed pi's with Klipsch surrounds?Any other suggestions (1pi, 2pi, anything else)?

Subject: Re: Surrounds to complement 7pi and 4pi HT
Posted by Wayne Parham on Sat, 31 Jan 2009 01:42:25 GMT
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room, that's what I'll be using.  I've tried them on makeshift stands and it's a perfect match for four

duty.

Subject: Re: Surrounds to complement 7pi and 4pi HT
Posted by coctostan on Sat, 31 Jan 2009 02:23:09 GMT
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The 1pi's will be much better on my budget.Could you email me the plans?If I maintain the correct box volume and port spec's, could I make them shallower and possibly angle them down a bit from the corner where the ceiling and wall meet?  I would also maintain the same baffle width if necessary.  This is for a work-in-progress dedicated theater and I would prefer to have them blend in a bit.Thanks,Max

Subject: You've got mail!
Posted by Wayne Parham on Sat, 31 Jan 2009 17:23:55 GMT
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model speakers are perhaps less sensitive to changes since they are not constant directivity

directivity can be adversely affected by movements in the positions of the drivers with respect to each other, so design changes have to be carefully considered.You have a little more wiggle room

models.  Keep the box volume and tuning frequency the same and you can expect bass performance to be pretty much the same.  Don't make one dimension significantly longer than the others though, at least not without further analysis.  This can introduce pipe modes that should be considered and possibly mitigated.Another thing, even though baffle position isn't as critical as the larger models, I'd still maintain the same woofer/tweeter physical relationship as shown in the plans.  Keep the tweeter close to the woofer, and on the same plane vertically (one on top of the other) or very close to it.  You can offset both drivers to one side or another if you wish, but don't offset the tweeter centerline with respect to the woofer centerline.  I've done some speakers that

below the speaker, not offset to the sides.

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Subject: Re: You've got mail!
Posted by coctostan on Sat, 31 Jan 2009 23:53:45 GMT
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I got the email, thanks.I will maintain the baffle layout, volume, port specs, but make it fit my room a bit better.  We'll see what I come up with.

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