Subject: 4 Pi speaker stands?
Posted by CZ Eddie on Mon, 15 Mar 2010 01:37:21 GMT
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First off, happy Pi day!

So I've noticed in Wayne's vertical response video and in various pictures on this forum, that folks seem to put the 4pi on speaker stands, angled up.

While other folks don't use any stands.

1) Is it okay to have the 4 Pi up against a wall behind it, or does this require a BSC modification to the crossover?

2) Is a stand heavily suggested and if so, what is the hight/tilt dimensions commonly used?

Subject: Re: 4 Pi speaker stands?
Posted by Wayne Parham on Mon, 15 Mar 2010 03:56:55 GMT
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I generally suggest stands if subs are used, and no stands if subs aren't used. You can use angled risers instead.

Baffle step is actually a directivity issue, and all my larger speakers employ controlled directivity. The cornerhorns use the corner to help set the pattern, and while others don't, the baffle is large enough to create some directivity down into the modal region, where directivity begins to lose its meaning. That's where the multisub configuration will help.

Subject: Re: 4 Pi speaker stands?
Posted by Infrasonic on Wed, 17 Mar 2010 18:34:13 GMT
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Hey Wayne!

I just love bringing up other peoples threads.

I've read that you recommend stands for the Pi4 when used with subs and that you also prefer a upwards tilt to them. This pic for instance:

I've read all over on your site but I have never seen many details regarding the stands that you

use. I will have a trio of Pi4's behind an AT screen of 100" in size and need approximately 24" of lift for them to clear the bottom border of the screen.

How did you build yours and what angle would you recommend if I were to tilt them? Also, I love the love of your Pi4's. Is that a fancy wood or veneer? They are gorgeous!

Subject: Re: 4 Pi speaker stands?
Posted by Wayne Parham on Wed, 17 Mar 2010 19:42:53 GMT
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The stands in that photo are 12" tall and have 7° tilt. There are lot of competent stand builders that can build to order. Most have standard sizes but will also custom build. They need to be a little larger than what some shops normally build but that's no problem. Just make sure the base is wide enough to support the speakera and be stable.

You can certainly make your stands 24" tall. I wouldn't angle them at that height though. Put subs within about 5 feet of the left and right mains and low-pass them fairly high, like 80hz to 100Hz. These are what I call "flanking subs" and they'll smooth the upper room modes. You can also put subs further away, low-passed at a lower frequency. These more distant subs will provide more smoothing in the lower modal region.
