Subject: Pi2 and woofer directivity Posted by RDLewis on Thu, 28 Oct 2010 19:15:07 GMT View Forum Message <> Reply to Message

Hello Wayne,

Over the years you have written many pages on matching sensitivities, phase, directivity, etc, using 2way woofer/CD horn systems, but I have not seen a lot in a similar vain on the Pi1 and 2?

You discribed the crossover of the "1" and "2", as using a "pseudo" first order for the bass levels off the rising Fq response and a cap and shunt resistor on the tweeter. I presume this goes someway to getting the phase right(?). But I would be very interested know how you set out to achieve your favored "controlled directivity" with a domed tweeter? Or had other objectives with above?

You have mentioned that Pi2 Towers are in regular use in one of your systems and I see they are at the top of the list of best sellers. So how do they compare with the more expensive proper CD Horn in imaging and control?

I would be grateful if you could enlighten us all.

Thanks

Roy

Subject: Re: Pi2 and woofer directivity Posted by Wayne Parham on Thu, 28 Oct 2010 20:04:49 GMT View Forum Message <> Reply to Message

good, (2) are inexpensive and (3) efficient. They provide plenty of good, balanced sound with little power input and they don't cost a lot. Their impedance curve is pretty flat too, so that, combined with their high sensitivity makes them work well with tube amps as well with solid state receivers.

These speakers don't provide constant directivity, so their imaging isn't nearly as good as the larger models. Room coverage isn't as uniform. They're more traditional cone/dome loudspeakers, designed to be listened on-axis. But they're great for surrounds or for secondary or budget systems. I like the bookshelf model for surrounds, and the tower model for applications where they're used as mains, like a bedroom system.

Subject: Re: Pi2 and woofer directivity Posted by RDLewis on Fri, 29 Oct 2010 10:58:03 GMT Hello Wayne,

I have a few other questions relating to Pi-two, if that is all right, but for now, thank you for your reply.

Roy

Subject: Re: Pi2 and woofer directivity Posted by Wayne Parham on Fri, 29 Oct 2010 19:45:04 GMT View Forum Message <> Reply to Message

Happy to help, that's what this site is here for.

Drop by anytime, hang out often!

Subject: Re: Pi2 and woofer directivity Posted by RDLewis on Mon, 08 Nov 2010 20:59:00 GMT View Forum Message <> Reply to Message

Hello again,

I did a search of the messages, e.g, "crossover componants", you obviously recommend good quality parts. With the "Pi2", having just three componants you can spend a lot more on each part.

You have stated you prefer to go for low inductance, high power resisters. So with the shunt on the tweeter, would there be benifits in using this type here? How much power is dissipated in this componant.

Roy

Subject: Re: Pi2 and woofer directivity Posted by Wayne Parham on Tue, 09 Nov 2010 04:57:40 GMT View Forum Message <> Reply to Message

Yes, I use a non-inductive 10 watt resistor in shunt across the tweeter.

Subject: Re: Pi2 and woofer directivity Posted by RDLewis on Tue, 09 Nov 2010 11:05:10 GMT View Forum Message <> Reply to Message

Thanks.

Roy

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