Subject: Multiple 4pi per channel
Posted by Benji on Fri, 09 Nov 2012 20:24:30 GMT
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Hi all!

If you were using multiple 12pi subs per channel for a small but outdoor event:

1. Would the 4pi be suitable to pair with the 12pi's
2. If yes would using say, 2 or 4x4pi's per channel cause issues
3. What would be the most ideal arrangement

Regards,

Benji

Subject: Re: Multiple 4pi per channel
Posted by Wayne Parham on Fri, 09 Nov 2012 22:08:01 GMT
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used for prosound but it is not suitable for arraying. The only exception is pairs - You can put one speaker on top of another with tweeters together to form an MTTM arrangement.

The thing I think you're looking for is an arrayable speaker that can be flown. Something with a vertical row of midwoofers and a vertical row of tweeters. One cabinet that holds one woofer and two tweeters, designed to be connected together and hung in a vertical array.

require a complete design/test/optimize lifecycle and unfortunately, we do not have plans to do anything like that at this time.

However, if you are willing to do some testing, I can help guide you through the process. That's what AudioRoundTable.com is here for. So if you do build an arrayable speaker like this, please keep us posted.

Subject: Re: Multiple 4pi per channel
Posted by Benji on Fri, 16 Nov 2012 23:31:22 GMT
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Wayne, thank you for the reply, unfortunately I'd lack the skills and knowledge to know what I was doing! I can cut and put together something that has already been proven with instruction, no

problem! But to go out there and start trying something new? Probably not, unless you think that:

1. The changes wouldn't be too drastic.
2. The ability to test is relatively simple and not too expensive.
3. You'd have enough patience with me!

So from what you are saying, a 4pi stacked upside-down on top of another would work for one channel without having to remodel anything?

Basically I'm looking to have something that would keep up with two or four 12pi's per channel (realistically only two but I was curious how far you could take it with the 4pi's as well) for a bit of outdoor fun.

Out of curiosity, what is the correct way to stack two and four 12pi's (taking into account the cooling plates)? I note the sub is rated for 1600Wrms, I'm guessing that's for both subs in each cabinet combined? What's the nominal impedance?

My thoughts were an EP2000 per 12pi but not sure if that should be bridged or not and an EP2000 per pair of 4pi's per channel (not bridged) though again I'm not sure on the impedance and if it's suitable for both duties, I know the IB sub guys love it for sub duties.

Perhaps I need to look around the forums a little more or is that kind of information in the plans?

Thanks again for entertaining my crazy plan

Subject: Re: Multiple 4pi per channel
Posted by Wayne Parham on Sat, 17 Nov 2012 03:32:11 GMT
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can be clustered is in pairs, with one on top of the other, tweeters together.

For a flown array, you would need to look elsewhere.

that would still take a design/test/optimize cycle. It isn't something I would encourage unless you were familiar with loudspeaker design, measurement and testing.

Subject: Re: Multiple 4pi per channel
Posted by Benji on Sat, 17 Nov 2012 20:54:40 GMT

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Wayne Parham wrote on Fri, 16 November 2012 21:32It isn't something I would encourage unless you were familiar with loudspeaker design, measurement and testing.

This is for a small to medium but very open outdoor venue.

Thank you for your help!

Subject: Re: Multiple 4pi per channel
Posted by Wayne Parham on Sat, 17 Nov 2012 21:58:34 GMT
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Well, the mains can always be sent more power than the subs for level matching. So you can set the system up where they blend nicely.

I'll send plans by email.

Subject: Re: Multiple 4pi per channel
Posted by Benji on Mon, 19 Nov 2012 01:11:56 GMT
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Received! Thank you very much sir!