Subject: PSD2013
Posted by Wayne Parham on Mon, 09 Sep 2013 23:12:20 GMT
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Eminence has just introduced a new compression driver, which they say is smoother than the PSD2002. The PSD2002 is a good value driver, so if this new driver is smoother, it might be a good part in-between the PSD2002 and the DE250 upgrade. I'll bring in a couple and see.
PSD2013 Compression Driver

Subject: Re: PSD2013
Posted by tubemax on Tue, 12 Nov 2013 11:51:58 GMT
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Hi Wayne,

Is there any news regarding new compression driver, did you get a chance to test it with H290C and how does it sound?

Regards,
Max

Subject: Re: PSD2013
Posted by Wayne Parham on Tue, 12 Nov 2013 14:48:15 GMT
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No, I did order a couple to test with, but haven't done any measurements yet. I'll post here with results.

Subject: Re: PSD2013
Posted by tubemax on Tue, 12 Nov 2013 18:37:11 GMT
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OK, thanks!
Btw, is there any fresh review of 3Pi speakers with Eminence Definimax 4012HO by now? Would be interested to know what is the difference and how close is to JBL 2226H sound wise, also it would be nice to see new measured response from updated speaker if possible.

Subject: Re: PSD2013

Posted by Wayne Parham on Tue, 12 Nov 2013 20:42:23 GMT
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The three Pi speaker with Definimax woofer has an EBS alignment, so it sounds gently rolled off down low. It isn't so pronounced that it sounds weak without subs, but it definitely sounds better with them. That's fine, it's all part of the design philosophy. I do not incorporate BSC into my speakers because they are intended to be used with flanking subs anyway.

In the response curve above, you'll notice the baffle influence on directivity starting around 200Hz. This is the upper range of helper woofers, and augmentation using flanking subs is my preferred method of dealing with that. You'll also see the EBS in the octave from 50Hz to 100Hz. Flanking subs will help provide extension in this range too.
Helper Woofer LocationThere is usable response very deep from this speaker, so it provides a good deal of energy for blending with helper woofer / subs to provide modal smoothing. Or in cases where it is used without subs, it has enough low frequency output that the deepest notes are definitely heard. But again, while the speaker sounds pretty good without flanking subs, I think it definitely sounds better with them.

Subject: Re: PSD2013
Posted by tubemax on Tue, 12 Nov 2013 22:23:10 GMT
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Hi Wayne,

Thanks, great info!
Just to clarify, this is measured in free space or actual room response?

Subject: Re: PSD2013
Posted by Wayne Parham on Tue, 12 Nov 2013 23:18:05 GMT
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That measurement was made outdoors.

Subject: Re: PSD2013
Posted by Bill Epstein on Wed, 13 Nov 2013 01:57:30 GMT
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Can I take a look at the 3 Pi Plans, please?

Subject: Re: PSD2013
Posted by Bill Epstein on Wed, 13 Nov 2013 02:18:19 GMT
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Just had a look at the Definimax in my abandoned (well, I feed the cat up on top of them ) 3 Cu Ft Utah 12" boxes from last year.

That's with adding a 4" port 6" deep, tuned to 35.47 Hz; an hours work. Hmmm.

File Attachments
1) 3Pi Clone.bmp, downloaded 4630 times

Subject: Re: PSD2013
Posted by Wayne Parham on Wed, 13 Nov 2013 04:45:11 GMT
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You've got mail!