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Subject: delta 12LF goes high enough?

Posted by [bqc](#) on Mon, 30 Sep 2002 17:33:18 GMT

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to be used with ksn 1038? Eminence frequency plots shows sensitivity down to 92 db at 3.5 KHZ. And it looks like KSN 1038 starts picking up also at around 3.5 kHz. Is this a good combination for stage monitor in a 1 cubic foot box? Or should I use a Kappa 12 or delta pro 12 instead?

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Subject: Re: delta 12LF goes high enough?

Posted by [Wayne Parham](#) on Mon, 30 Sep 2002 17:50:19 GMT

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I am sometimes questioned about the performance of large format drivers above 1kHz, but I rarely get asked about their performance at 3kHz. I suspect that on-axis, it will sound alright, something like a full-range driver. But the "LF" versions rarely perform well at higher frequencies and the Delta 12LF is something of an exception. Let us know how it sounds if you decide to do it.

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Subject: Re: delta 12LF goes high enough?

Posted by [bqc](#) on Mon, 30 Sep 2002 18:42:54 GMT

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Thanks Wayne So you are saying the Delta 12LF is an exception to the rule that LF driver don't perform well at higher frequencies? Which means that it would do ok? I heard people talk about driver break up mode and how it is unpleasant to listen to. Does driver break up mode usually happen at the high end of its frequency range? If so then how can one use the the Alpha 10 in the Studio 2pi's all the way up to its upper range without hearing any of the break up mode?

Subject: Re: delta 12LF goes high enough?

Posted by [Wayne Parham](#) on Mon, 30 Sep 2002 19:56:57 GMT

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"Break-up modes" are frequencies where the cone twists and has ripples across its surface instead of moving as a rigid piston in a single, unified motion. Some speakers get very loud and harsh in the breakup region, others are pretty controlled. Some designers try to avoid using the speaker in this mode for technical reasons, but others use the increased output to their advantage. Single driver designs, especially those with whizzer cones are an example of purpose-designed use of controlled breakup mode behavior.

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