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Subject: series, parallel and speaker sensitivity

Posted by [wasteh202](#) on Sat, 21 Feb 2004 13:55:02 GMT

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I am curious about toying with my speakers. I have a couple of pairs of the same speaker. The 2Pi tower, 8 ohms and 1watt = 97 db. I am curious what will happen if I run the two pairs together. If I connect the pairs in series, I get a 4ohm load now... correct ? So what is my sensitivity now... does it change ? I should get a higher sound level... No ? I know that sensitivity ratings are measured with one speaker.. and that when you have a pair of 97db speakers that you should have 100db at 1watt( add 3db for the second speaker). Does this still apply when you add a second pair that the increase in sound pressure will go up 3db per speaker or 6db per pair ? hmmm? It seems to me yes because I am running two pair instead of one. But does the sensitivity really change ? or am I really just allowing more current to go from the amp to the speakers at the same output from the attenuator ? It seems I remember wondering about this question years ago, and coming to the conclusion that "there is no free lunch" yet I also remember being proved wrong... hmmm? and if I connect them in parallel ? the reason I ask this question is that I am seriously looking at the Decware Zen amp which is very low power, but drives speakers very well to 2ohms. somebody help me please... thanks !

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