The ABC's of DSP and You

I've made a big deal about us not using any form of electronic help, or manipulation, to achieve our goal of providing natural sounding low frequency audio reproduction. This does not mean that we don't believe in using DSP, otherwise known as Digital Signal Processing. We just don't use it in our Bass Augmentation Speaker Systems. Our designs operate within the laws of acoustics and don't need no stinkin' help.

We can optimize the enclosure volume and tuning frequency to achieve our design goals. But unless you've done the same with your listening room you might benefit from using some form of DSP. Personally, I'm not a big fan of using this technology. Too much of an audio purist I guess.

I would suggest incorporating other acoustical room treatments and physical placement of the speakers before using electronic manipulation. But when all else fails, DSP could come to the rescue. Just know that this will only optimize the response for a single sweet spot. And it can not correct for the typical dips in response due to room acoustics. These are acoustic cancellations due to out of phase conditions at certain frequencies. No matter how much boost is applied at these frequencies they are still out of phase, and therefore they will always cancel out. Ahh…..those laws of acoustics. Ain't it great?

Just want to make it clear that we're not against DSP because of that digital thing. Digital has come of age and has a lot of potential. But if design goals can be met by using all natural means, why wouldn't you pursue that?

We do. And we'll let the results speak for itself.

HAPPY LISTENING

John