

Displacement

When it comes to reproducing low frequencies with authority and a proper sense of scale there is no substitute for size. There is no replacement for displacement. It's not that you have to go big to go low. Think of headphones. Some have incredible bass response. But place a couple of headphones on your favorite speaker stands, put on your favorite techno group, get comfy in your recliner with the cup holder and back massager, crank it up and prepare to be disappointed. It's simply a matter of scale.

During one of the Trade Show days a couple of youngsters, sorry, everybody's a youngster to me, came into the room. Upon seeing the MD6, as they spun around on their heels, one of them sarcastically said something to the effect that we should learn about physics. I thought that was a remarkable thing to say because that is exactly what we are doing. Operating within the laws of physics. The laws of acoustics. The laws of bloody nature. Too bad they didn't stick around to hear how well that works.

I don't find cube shaped boxes that attractive. I am sure that I'm in the minority, because that appears to be mostly what's available. Don't care how glossy they are or how much chrome trim they're decorated with. At least, if they are large, you can be sure that they can reproduce that sense of scale thing. Thrilling for Home Theater. But film audio is usually made up. It's made up by sound designers who are really good at what they do. Making fake sound real. As far as I know, no one has ever recorded the realistic sound of a starship exploding in outer space (Talk about the sound of silence!). But what about concert videos? Real sounds performed by real people using real instruments. This brings me back to home audio.....

One of the advantages of our multiple small driver design is that we can build vertically. Can't get away from large internal volume, but we don't have to take up a lot of floor space. The MD6 is a 4ft³ enclosure but only takes up 1ft² of floor space. The MD2 is a 1.2ft³ enclosure with an 8" X 11" footprint. These larger enclosures are one of the reasons we can push these smaller drivers into subwoofer territory without the need for power wasting boost.

But wait.....there's more!

Because we're using multiple drivers in these designs, the amplifier power that is driving them is shared between multiple voice coils. Each one is receiving only a portion of that power. Which means that when we push the system really hard, each driver is not being stressed. Hence no need for limiting or compression. No electronic artifacts to contend with. All natural. No artificial ingredients. No GMOs. No high fructose corn syrup either.

Let's see, what else.....Oh yeah. Because of the multiple driver thing we can configure them in opposition to cancel out mechanical vibration. This is an advantage if you're living in a condo or apartment complex. No unwanted vibrations causing tension between you and your neighbors. You still could, however, pump up the volume and shake the dishes out of the cupboard with pure acoustical energy. Not responsible for lease violations.

Which, ironically, brings me back to Home Theater. One of our advertising slogans is: Audiophile Approved - Soundtrack Rated. Because of using multiple drivers our MD series can handle serious amounts of power. Just what the Home Theater doctor ordered. So if you want to really know what a starship realistically sounds like as it's exploding in outer space.....

Till Next Time

HAPPY LISTENING

John