Subject: Re: Array for centre channel?
Posted by Duke on Thu, 02 Oct 2008 09:38:40 GMT
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The problem I see with the traditional sideways MTM for a center channel is lobing of the two M's in the top octave or so of their range. The result is a significant tonal balance glitch for listeners who are off centerline. Since a center channel speaker is mainly intended to anchor voices onscreen, it is the off-centerline listeners who most need the benefit of a good-sounding center channel signal, and they are the ones who are not getting it. The on-centerline people are getting a good center channel signal, but they don't need it. From your post, I presume that your center channel cannot go behind your screen.In that case, I would suggest a splayed array. I have never seen anyone do this with a center channel, but it's how I would do it with conventional woofers and tweeters. I don't really now whether it would be best to splay the drivers outward or inward, but I lean towards inwards a bit. Outward-splayed arrays are used in prosound applications to increase the area of uniform horizontal coverage. In my opinion, that's where there's significant room for improvement over conventional sideways MTMs.Below is a link to a prosound speaker that uses inward-splayed woofers. Duke
Big Japanese prosound splayed-woofer system