Posted by Wayne Parham on Tue, 15 Mar 2022 19:40:44 GMT
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ppkstat wrote on Tue, 15 March 2022 12:39I am still surprised at how much the tweeter signal gets attenuated. I understand that this is to compensate for the difference in loudness between the two drivers. When fed with a 2V sine (P-P) at the crossover point (1KHz) I am getting a 1V sine at the woofer output and a 150mV signal from the tweeter! Naturally the tweeter signal increases in greater frequencies.

Lookin' good. That's exactly what it's supposed to do. The waveguide doesn't just provide directivity but also provides acoustic impedance matching, which makes it more efficient. So we increase on-axis SPL both by narrowing the beamwidth and horn loading. It's about a 10x increase.