Subject: Re: Audio measurement tools
Posted by Wayne Parham on Wed, 04 Oct 2017 20:23:42 GMT
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That's right - WTPro is made by Smith & Larson, the same company that made the original Woofer Tester. But WTPro is much more full-featured, including the ability to make acoustic measurements in addition to the basic electro-mechanical parameter measurements. And the thing I really like about it is the Interactive Crossover Designer.

The ICD provides a mechanism to use a Spice model to create a digital filter. What this does it to allow a designer to enter the Spice model of a passive crossover and then to measure a loudspeaker using this digital representation of the crossover. The benefit is that crossover changes can be realized immediately, during measurements, simply by changing values in the Spice model.

I've done several designs with the ICD and it has proven to be 100% accurate. I am able to "dial-in" my crossovers, fine-tuning the on-axis and polar response using the ICD. When I am happy with the ICD measurements, I then build a physical crossover and measure again. It is an extremely useful design tool.

See a write-up of the ICD design process at the link below. It includes a link to a video where you can see the WTPro in action.
Crossover optimization for DI-matched two-way speakers