Subject: Re: Link to RTA
Posted by Bill Fitzmaurice on Tue, 06 Apr 2004 20:20:19 GMT
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Don't mistake my point. First, if you've got 100dB from 60 to 80 Hz 150 feet from the stage that's a lot of bass impact, plenty enough to thump your chest and take your breath away. And yes, you do need some response capability down to 30 Hz or so, as the fundamentals are important too. But the main point of my discourse is that there is a basic misunderstanding amongst not only the general public but those in the industry as well as to what 'heavy bass' actually represents in the world of concert sound. It's an understandable situation, as until very recently it wasn't so easy to take an RTA of a live concert. With the advent of the handheld Phonic PAA2 it's a simple enough affair now, and what using one proved to me is that what is required for heavy bass in concert isn't strong fundamentals, it's strong 2nd harmonics, and that's where you need to make sure your speakers are up to the job. The bottom line is that there are very different requirements of loudspeaker system responses for live versus recorded sources. If you want to do home theater right you need to be flat to 25 Hz minimum, while recorded music is generally adequate when flat to 35 Hz, and live-sound need only be flat to 60 Hz. Knowing that makes it a lot easier for both the home listener and the sound professional to make sensible and economical choices when either purchasing or building loudspeaker systems for their respective genres.