



➤ Greening of the Behringer Ultra-Drive Pro DCX2496

By Jan Didden

You'll enjoy this mod project, which adds a replacement analog output board to this useful Behringer crossover unit.

Face it, the world is analog in nature. Yet, digital technology has its advantages. Witness the Behringer Ultra-Drive Pro DCX2496 (I'll call it the DCX from now on), with its two analog balanced stereo inputs, an AES/EBU digital input, six ADCs, a Digital Signal Processor (DSP), and six DACs. Plus a handful of op amps to size the analog signal up or down, and six analog balanced output channels. You can use the DSP for a variety of signal processing before sending a signal to any of the six outputs.

One obvious use of the six processing channels is for a digital three-way stereo crossover.

In stereo use, you can link each pair of output channels (low, mid, high) so that any setting you make to one side is automatically copied to the other side. The crossover settings include filter frequency and filter type (Butterworth, Bessel, or Linkwitz-Riley, from 12dB/oct to 48dB/oct).

You can set the level for each output individually, set the input levels, and also insert band-pass or band reject filters, with varying *Q* and lift/drop levels to correct humps and troughs in your speakers' frequency response. You can modify the *f_L* response to correct room errors. There is even an auto-delay mode (if you have the optional mike) to correct for unequal delays

from speakers to the listening position.

There is no limit within the capabilities of the DSP, and the display will show you even how much, in %, remains of its processing power. You can save a particular setup with a name of your choice so you can have a series of setups if you use your unit at different places or systems (or music). And all that for a street price around \$300 US. I have used this unit for two years now, and love its quality, flexibility, and well-thought-out user concept, and even bought a second one for my other system. But, being an audio DIYer, I couldn't leave well enough alone.

Because I stay away from DSPs and other

FIGURE 1: Stock output section.

