Introducing the Boom Box Subharmonic Synthesizer

Here is the device you need to restore the lows to your life. The dbx Boom Box. It regenerates the low frequency bass that's all too frequently left out in the recording process. And it recreates the bottom octave so you can hear heightened accuracy in the bass, and actually feel the power inherent in a live bass note. The "solidness" and three-dimensionality of bass heard in a live performance – which can be physically experienced – are brought back to life.

Why You Need It – Because Life Is Not All Highs.

In order to get as much music as possible on a record, engineers must limit the depth and excursion of record grooves. So in the recording process, the lower frequencies are often deliberately cut off.

What It Does.

Most recordings give an accurate account of music's frequency range down to about 60Hz. The octave between 25 and 50Hz is most often missing or very weak. The Boom Box recreates this lost portion of the audio spectrum by utilizing program in the region above 60Hz to synthesize signals one octave lower. It then mixes them back into the program.

Controls.

There are just two controls on the Model 100. One is a synthesizer control – a sort of gas pedal if you will – that sets the amount of synthesized low frequencies you put into the system. The other is a low frequency boost control specially contoured to produce a smooth blend of the synthesized notes into the music.

How to Use It.

Use your ears. As you regulate the low frequency boost control, your ear will tell you when it is set "right" – when the signal fills in the gaps in the lows that rob you of the sensation of a live performance. The Boom Box can be enjoyed with almost any component system. It is easily inserted in the tape monitor circuit of your receiver or amplifier.

The Experience Beyond.

The Boom Box is perfectly capable of creating a new dimension, if you have a higher-powered system. The best device to "hear" it with in this fashion is your whole body. You can turn everything up until sound becomes a visceral sensation. Huge blasts of air from the pulsing low frequencies attack your chest and stomach – producing a sensation unlike anything you've ever felt. The room crawls with low frequency energy, and you, in effect, become a resonator. Sounds become "Supereal" and the sensation is unlike anything you have ever experienced from recorded music.

The Perfect Setting To Hear, And Feel It.

Your local dbx dealer can demonstrate the Boom Box. But a note of caution. Be prepared for the experience that goes beyond listening.

SPECIFICATIONS

Dynamic range (peak signal to weighted background noise): **100 dB**

Input impedance: **47 K**

Input level (nominal): **300 mV**

Input level (maximum): **7 v RMS**

Output impedance (designed to drive 5 K ohms or greater): **470 ohms**

Output level (maximum, 20 Hz to 20 kHz): **7 v RMS**

Frequency response: **20 Hz to 20 kHz ± 1 dB**

Input Noise (unweighted, referenced to 1 v): **−85 dBv**

Total harmonic distortion: **0.1% typical, main signal channel**

I.M. distortion (SMPTE): **0.15%, main signal channel**

Power line requirement (100, 220, 240 optional for export markets): **117 VAC, 50 to 60 Hz**

Power line consumption: **10 w**

Size: **3 3/4" (h) x 7 5/16" (w) x 10 1/4" (d) (mm: 95.25 x 185.7 x 260.35)**

Shipping weight: **5 lbs. (2.26 Kg.)**