



118 Linear Dynamic Range Enhancer

The dbx 118 is a single band linear expander...and much more. It is also a compressor, a limiter and a peak unlimiter. In short, it is the most versatile dynamic modifier available today.

Yet, its price is modest.

Notice the expansion/compression control. You can use it to set just the amount of dynamic range expansion you want. Where large level variations are undesirable, you can instead compress the entire dynamic range, bringing the quiet and loud portions of your music closer together.

Just to the left is a threshold control. When expanding, this can be used to set the point in your music's dynamic range below which music becomes quieter, and above which it becomes louder. If you place the button on the far left in the out position, the 118 becomes an

above-threshold expander, or peak unlimiter. This means only loud portions of the dynamic range which exceed your pre-set threshold will be expanded, (made louder). Above threshold expansion is most useful for programs which were compressed only at high levels. If your 118 is in compression mode, the reverse is true — it becomes an above threshold compressor or limiter. That means signals rising above your threshold will be made more quiet.

The amber and red LEDs tell you when the signal is above or below threshold. They are your guide in setting threshold levels.

The 118 can be used with Dolby® "B" tape noise reduction, and will provide additional noise reduction. Two 118's can be coupled to track accurately in four channel applications.

SPECIFICATIONS

Compression ratio: **continuously variable to infinity**

Expansion ratio: **continuously variable to 2.0**

Dynamic range (peak signal to weighted background noise): **110 dB**

Input impedance: **50 K**

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

Input level (maximum): **30 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 ± .5 dB**

Input noise (unweighted, referenced to 1v): **-85 dBv**

Total harmonic distortion: **0.1% typical at 1.0 expansion, 20 Hz to 20 kHz**

I.M. distortion (SMPTE): **0.15% typical**

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

Power line consumption: **5 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.)**

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