

LEVELIZA



The Leveliza is a totally new type of product.

It uses a new type of circuit to specifically identify the audibly loudest significant components in a music signal, and then it analyses them over a period of time in order to identify the average perceived loudness of the music. When this average perceived loudness exceeds the set threshold it very slowly and subtly adjusts the system gain so as to try to maintain the average perceived loudness around the threshold.

It is not a limiter, it does not limit the system or signal. It is not a compressor, it will not compress or reduce the dynamic range of the music at all. It is not a conventional leveller, it will not maintain an average RMS value for a signal. It only considers perceived loudness, not bass weight, so won't be modulated by heavy bass lines. It is a totally new type of dynamics processor.

The Leveliza has two independent channels, and each channel has just three controls.

- The first control is "input gain" that can be used if desired to manually attenuate the input.
- The second control is to set the "threshold" for the desired maximum output level.
- The third control is the "assertiveness". This control would usually be set to minimum in normal use, in which case the unit will consider the average perceived volume levels over a few minutes and try to work at an inaudible rate to correct the levels as necessary. On occasions where the threshold level is being set/ascertained/calibrated, or if large fluctuations in level between different music sources are expected, the assertiveness can be turned up high and the unit will work much faster to maintain the correct perceived volume levels. The engineer also has the flexibility to choose a level of assertiveness in between if it is considered beneficial to a particular application.

In addition to its normal subtle operation the Leveliza will automatically work much faster for an "emergency response" in cases where the music is suddenly turned up considerably over threshold. It really is designed with the purpose of continuously managing the perceived volume levels just the same as a good human engineer would.

There are two displays, one for each channel. The display simply indicates the approximate db of gain reduction that is currently being applied to that channel.

TAMPER PROOF:- Also, for applications where the engineer does not want the threshold level to be increased there are additional hidden tamperproof adjustments that can be set to limit the maximum output threshold.

The units are all carefully hand built and tested in small quantities in our UK workshops, using only top quality materials.

Specifications

Dimensions:	Standard 19 inch 1U rack case by 250mm deep
Power requirement:	90 - 264 V AC, 47 - 63 hz, up to 60mA current draw
Audio Connections on rear:	XLR input and output for each channel
Power Connections on rear:	Standard IEC power inlet
Typical input level:	Designed to be compatible with most "line level" pro audio equipment
Maximum input level before clip:	Unbalanced 10V RMS / Balanced 20V RMS
Display:	Gain reduction shown in db for each channel