

Introducing the **LEVELIZA** - A totally new and unique type of product.



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 it won't be modulated by heavy bass lines. It is a totally new type of dynamics processor.

So, what is the application for such a tool?

Many music sources, particularly performing DJs, do not provide a consistent average volume level. Most shows and events have an optimum front of house volume level and would like the sound to remain fairly consistently around that level. Herein lies the problem, a consistent audible level is required from a non consistent music source.

Up until now there have only been two solutions:-

- a human engineer spending the duration of the show continuously adjusting the system gain, track by track as required, to keep the volume level out the front consistent, or
- there are various AGC (automatic gain control) devices that are used to try to limit the sound to the desired level, but some of them compromise the dynamic range of the sound, and some of them audibly "pump" with the bass, and some of them modulate level with changing duty cycle of the signal, and most of them cannot span a deliberately quieter section in a track without releasing their attenuation, plus many other unfortunate side effects, and as such none of them offer a really good substitute for a human engineer. However, despite the resulting compromise in the audible quality of the show, many sound systems and venues still use them because it is better than the alternative of no dynamic control when an engineer isn't available.

Finally now there is a third option, the new LEVELIZA, which will carefully adjust the gain in the same manner as a fully attentive engineer to ensure the levels are perfect throughout the event (all the benefits of option one above), but it also has the convenience of being in a fully automated unit (the benefit of option two above).

We've been providing sound systems for many years and are so happy to finally have this device for our own use at events. At some shows it means the attending engineer can focus his attention on other matters without worrying about continuously monitoring the levels. At some shows where the system will be unattended for periods we can finally relax knowing that the sound levels will remain perfect regardless of whatever the performers do. Either way it is proving to be a very valuable tool.

We can only imagine how many other systems and engineers will find a LEVELIZA hugely useful too.

Also, the vast majority of nightclubs rely on an inferior AGC system of some sort to try and control their levels, and as a result have to tolerate the resulting compromise in the audible dynamic range and quality of their nights. The LEVELIZA fitted in a nightclub would fix this problem straight away, allowing their system to sound at its best and totally uncompromised with perfect level control all the time. I think it's likely the majority of the world's nightclubs could better control their levels and increase the quality of their sound noticeably by the addition of a LEVELIZA. In consideration of the huge investment some clubs make in sound systems a LEVELIZA would be a trivial additional cost to bear in return for the benefits.

It's not very often a totally new type of product comes along, especially one that could be so useful right across the industry, so I can say we are as excited as proud to introduce the LEVELIZA.

If you have any questions, or would like to enquire about a trial or purchase, please feel free to drop us a line.

For full spec sheet click [here](#) or see the products page of our website at www.RC1.audio.

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