

AutoLeveler

Software Applications

May 2013

The Auto Leveler is a dynamics processor used to automatically boost or cut a signal to a user-defined target level. Target Level is the primary setting in the Autoleveler, as it determines the constant level to which an input is boost or cut. The Autoleveler can be used in situations such as speech re-enforcement, where an unknown source level needs to be maintained at a specific output level. For example, a podium microphone where different speakers will be presenting may have an auto-leveler, applied to ensure that strong or soft speakers' voices are amplified appropriately.

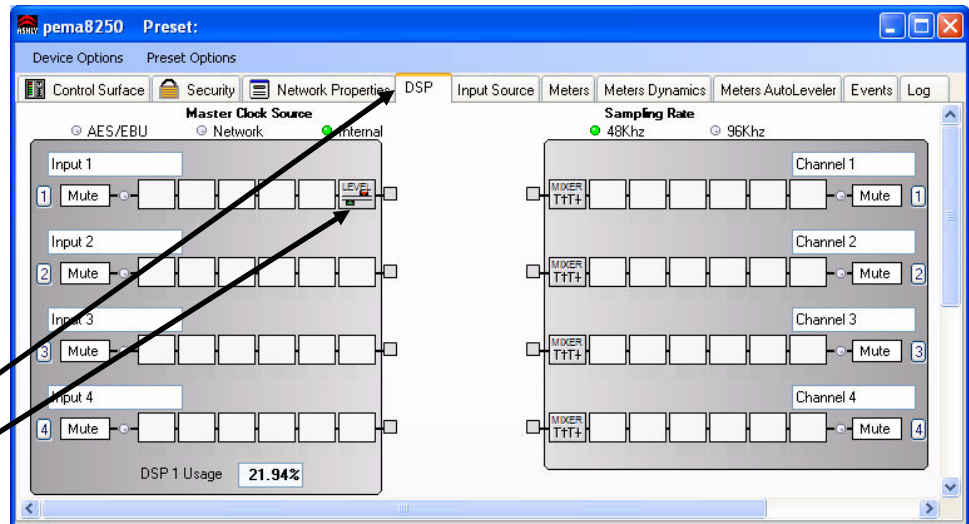
The controls for the auto leveler are split into two categories, Basic and Advanced.

It is recommended you start with the basic controls, and if fine tuning is required, use the advanced controls.

Warning: Depending on the settings, it is possible to apply up to 27dB of gain with the auto leveler
 Please see the Protea Software Suite "Help > Contents and Index" for additional details.

AutoLeveler:
 Pema Series (all models)
 ne4250pem
 ne8250pem
 ne800pe
 ne1600pe
 ne2400pe
 ne4400 (all)
 ne4800 (all)
 ne8800 (all)
 ne24.24M (inputs only)
 nXp (all)

Left click the DSP tab



Right click selected box>Dynamics>AutoLeveler

The AutoLeveler function is designed to keep your input level at an assigned target.

The default is a 0dB target level with 15dB maximum gain. As the input signal drops below, or raises above, the target level the AutoLeveler adds or subtracts up to the assigned 15dB of gain.

The default is a good starting point for most applications.

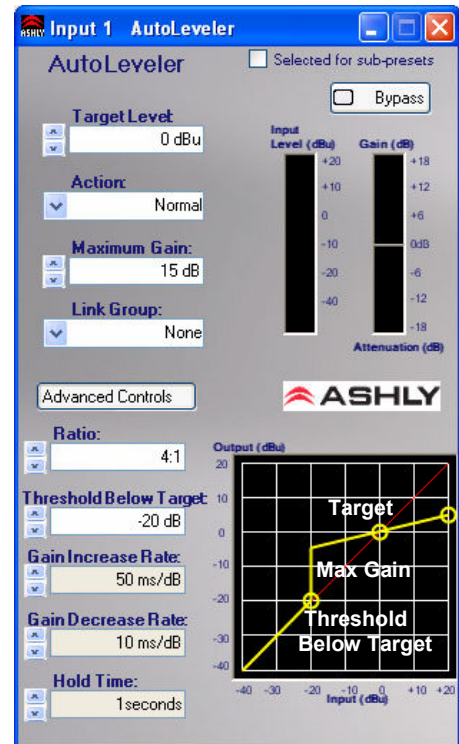
Lowering the "Threshold Below Target" (Advanced Controls) is recommended when the input seems to drop out on low signal.

Basic Parameters

Target Level: The desired output level of the signal
Action: Sets the Ratio, Hold Time, and Gain Change Rates
Maximum Gain: The total amount of gain the auto leveler may apply before it stops affecting the signal

Action Definitions

Action	Ratio	Hold Time	Gain Increase	Gain Decrease
Aggressive	10:1	0 Seconds	20 ms/dB	5 ms/dB
Normal	4:1	1 Second	50 ms/dB	10 ms/dB
Gentle	2:1	2 Seconds	100 ms/dB	20 ms/dB



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