HoRNet AutoGain Pro MK2

AutoGain Pro MK2 is a flexible volume processor with mid/side processing option. The plugin uses the same processing code of the AutoGain Pro but doubles the processing units providing two different detectors and two different processors.

The AutoGain Pro MK2 can emulate the behavior of the original AutoGain when set in "classic" mode, but it can also work in stereo or mid/side mode. Each of the detectors can use one of the five different source between internal or external types, each of the processors can use detector one or detector two as it source.

This kind of configuration gives AutoGain Pro MK2 a very high amount of flexibility that will let you get not just basic volume automation, but features that belongs to the compressors or transient shaper realm.

The detectors in AutoGain Pro MK2 allows you to fine tune the control signal for the processors thanks to the attack and release controls and the high pass and low pass filters that will let you restrict the bandwidth of the signal so that only the relevant part to your task is analyzed, you can also set the level of the detector signal to increase or decrease the effect on the processor.

The control signal created by each of the detectors is then passed to one of the processors that compares it to the level of the input signal for the processor, gain is computed and applied.

The amount of computed gain can be controlled with the "scaler" knob and limited with the "max gain" and "min gain" controls.

A large display shows the graph for the gain applied and the levels of the detector, these lines are relative to the minimum and maximum gain set for each processor and can be activated or deactivated as needed.

AutoGain Pro MK2 is one of the most versatile gain processors in the market and can give you a very deep amount of control.

Once you are happy with the computed gain you can trigger the automation writing mode and save the graphs movements to the host automation, set the plugin on read mode and use the stored automation from the host instead of the internal computing. Of course once the automation is written down you can edit and adjust it to taste.

Features:
Two detectors and two processors
Five different sources for each detector
Internal and external sources for detectors
gate from -60dB to 0dB for each detector
independent attack and release for each detector and processor
high pass and low pass filters on the detectors input
detectors gain adjustable from -30dB to +30dB
peak or RMS processing
reverse gain operation for each processor
"classic", "stereo" and "mid/side" mode
can write and read automation
independent adjustment of minimum and maximum gain range up to 100dB
relative gain range adjustment
graphical display for each detector and processor
Mac OS X (>=10.6 intel only) and Windows support
64bit compatibility both on Mac and Windows
Audio Units VST2.4, VST3, AAX and RTAS format

Plugin mode and display options
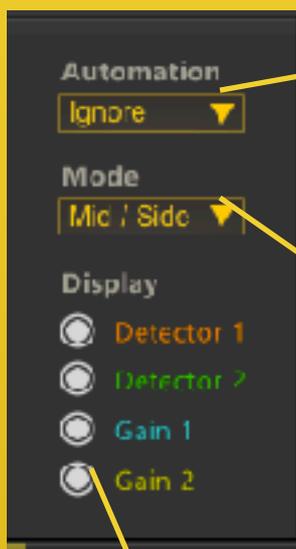
Sets the automation mode for the plugin, when set to "**ignore**" no automation is read or written and the plugin does its internal processing. When set to "**write**" the result of the processing can be written as automation to the host if automation recording is enabled in the host itself. When set to "**read**" the automation of parameters "**gain1**" and "**gain2**" is read back from the host and applied to the signal according to the current working mode

Sets the working mode for the plugin.
When set to "**classic**" it behaves like the original **AutoGain** needing an external sidechain to work properly.
When set to "**Stereo**", "**Gain 1**" is assigned to the left channel and "**Gain 2**" is assigned to the right channel. The setting of the left channel are replicated on the right one for convenience.
When set to "**Mid / Side**", "**Gain 1**" is set to mid, while "**Gain 2**" is set to the side channel.

These switches enable or disable the display of the graphs indicated by the label on the large display panel.

Graphic display

This section shows the movement of the output of each of the detectors and the gain resulting from each of the processors. Each line can be deactivated from the "display options" pane.
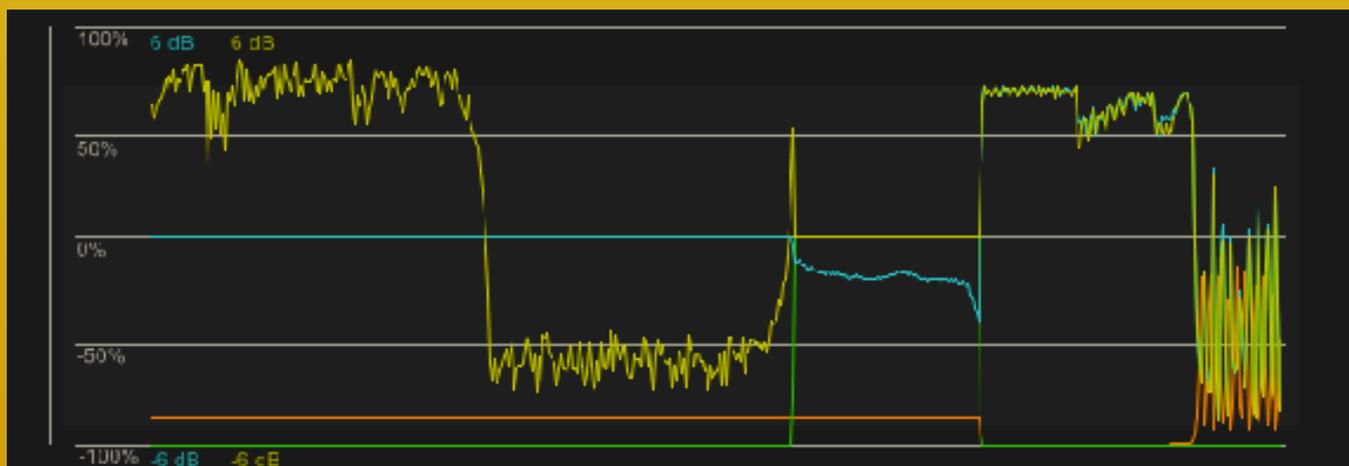
These small numbers indicate the absolute level of the "100%" labels beside them. The graph display is a relative one so for each colored graph the "100%" level is represented by those numbers. Small tip: clicking on those numbers allows you to edit them and has the same effect as changing the "Min. Gain" and "Max Gain" parameter for each processor

Detector 1 and Detector 2

Detectors analyze the signal coming from the selected source and convert this input in a control signal used by the processors to compute the gain necessary to stay at the level of the control signal coming from the detector.

Sets the input source for the detector, you have five different options:

Int. Mid
Uses the sum of the left and right channel of the plugin input for the detector

Int. Side
Uses the difference of the left and right channel of the plugin input for the detector

Ext. Mid
Uses the sum of the left and right channel of the plugin sidechain for the detector

Ext. Side
Uses the difference of the left and right channel of the plugin sidechain for the detector

Int. fix
Uses and internal fixed reference for the detector

Turns the detector on or off to save CPU

Sets the output level of the detector

Sets the hi pass and low pass filters for the control signal of the detector. This allows you to use only the frequencies you want for the detection

Sets attack and release times for the detector envelope, these values can be linked activating the small lock icon

Gain Processors

Gain Processors compute the actual gain applied to the input signal comparing it to the one coming from the detector. Each of the processors can be assigned a different detector and can work in **RMS** or **Peak** mode.

Lets you choose the processor input between Detector 1 and Detector 2

Allows to scale the amount of gain computed by the specified factor

Lets you choose the processor input between Detector 1 and Detector 2

Sets the minimum and maximum gain that can be applied. these parameters can be linked clicking on the small lock icon

Set the attack and release times for the processor envelope, these parameters can be linked using the small lock icon

Reverses the computed gain for the processor