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Inertia is a Latency Free VCA to Opto compressor plug-in for the Pc VST format.



#### How to install:

- Simply place the Inertia.dll file in your Vst Plugin directory.

## Features:

- Latency free. Zero ms Latency unless you hit the LAH ( Look A Head) 4 ms button. Then it would be 4 milliseconds LAH effectively killing any poor transient you might have had.
  - Fast Attack time from 0 ms
  - Fast Release with PDR (Program Dependent Release)
  - Variable knee from Soft through Linear to Hard.
  - Variable character from true VCA to Opto.
  - A nice sounding Low cut filter and Hi cut filter with Q knobs so that you can add some bottom or high-end to your material. It also has a semi automatic bypass button that lets you double check what you are doing.
  - A vintage styled SClip (softclip)
  - A very broad Band pass Side-chain that makes it easy to use as e.g. DeEsser or to get a vintage styled compression. A listen button lets your hear your sidechain signal and while that is engaged a flashing light above the Ratio knob will tell you that you are in "Listening mode"
  - A mix parameter to mix the dry signal with the compressed. Also called Parallel Compression or New York Compression.
  - A input gain Trim to adjust for low gain signals or to modify the fixed Threshold (-30dB)
  - Works at samplerate which gives very nice result. Especially if you belong to the lucky few that gets to use 88.2kHz or more. The higher the samplerate the more times the new gain will be computed. At 44100 the new gain will be computed 44100 times per second. At 192kHz it will be computed 192000 times per second. That will really make a difference.
  - Two old style VUs that can be set in 3 ways to display different things. e.g. VU 1 shows Left channel Output and VU 2 shows the Gain Reduction
  - A variable Peak meter that displays Input, Gain Reduction and Output. It can be set to display from -60dB up to -6dB by simply dragging your mouse up and down in the Peak meter area. Watch the result in the presets area.
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## General Requirements:

### Minimum System Requirements

- Processor: Pentium/AMD Processor speed: 1200 MHz
- SSE or SSE2
- RAM (Cache): 512 MB RAM
- Operating system: Windows XP or Vista
- Host application: Cubase VST 3.7 or higher or other VST 2.0 compatible host software
- Other Components: PC equipped according to the specifications of the host software

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## History:

15/3-08 v.1.92

- Changed the Dry/Wet so that it is not affected by the Trim knob.
- Changed the PDR so it works better.  
It now reacts a lot more to the Release/Hold Knob in PDR mode.  
Much more musical. Also made it so that the Release time display changes live when in PDR mode.
- Optimized the Detector and some other parts.
- Extended the Attack from max 300ms to 500ms and also changed the way it was measured. The attack time is now much longer.  
Check old presets.
- Changed the Release Time slightly to a smoother scale. Also a bit faster.
- Corrected a bug that would prevent envelope times to update itself when values changed. Pretty serious bug.
- Now the envelope works as intended and indeed sounds a lot better and more musical.
- Fixed a nasty bug in the Threshold Detector.
- Fine tuned the clip meters.
- Changed the Ration max from 50.0:1 to 100.0:1
- Changed the Graphics slightly to gain some loading time.
- Changed the LAH delay back to 3 ms. It is enough.
- The Input Peak meter now displays the input signal after the Trim knob.
- Changed the Trim Range

- Optimized Load time and ram usage
- Fixed another bug in the Envelope Detector that could cause some serious problems when not using PDR and in OPTO mode.
- Fixed Denormals in the Low Cut Filter.
- Finally added the serial protection I have been working on.

28/2-08 v.1.80

- Many optimizations to the various filters. It should now use much less cpu.
- Added a clip-meter that is quite accurate. It is ok if it flashes once or so but more then that and its clearly over the limit.
- Changed how the mix knob was routed.
- The LAH is now at 4 ms.
- Finally changed the smaller knobs.
- Fixed a bug were envelope times would change on higher sample-rates.

10/2-08 v.1.70

- Added Opto compression as an option. It is adjusted with a knob from VCA to Opto.
- Cleaned up a bunch of bugs in the sidechain part. v.1.66 sounded quite crappy but now its back to were it should be.
- Remade the graphics slightly to fit the new VCA-Opto knob. Also fixed the graphics around the peak meters.
- Looked hideous before and was quite misleading. I found myself trying to change the scale by clicking on the numbers.
- Moved the softclip so its placed after the sidechain listen and mono switches.
- Modified the Release times slightly. I had previously added a 100 ms to release-time when in PDR mode.

7/2-08 v.1.66

- Have made some serious optimizations to make it load much faster.
- Changed the routings a bit so that it doesnt clip when input trim is pushed to hard.
- Changed the High Cut filter so that it doesnt dist when input is to loud.
- Changed the attack time from max 100 ms to 300 ms.
- Changed the Peak meters so that it can display down to -60dB instead of -40dB
- Added a new function to reset knobs to default position by double clicking on the knob.  
( Ctrl click still works)
- Corrected some bug so that fine adjust knobs by pressing your right mouse key while still holding down the left mouse key and dragging, now works.  
(also you can use shift + left mouse key and dragging for fine tune)
- Many more small fixes and tweaks.

30/1-08 v.1.61

Made some optimizations to cut cpu rate with 25% (on my own machine)

- Replaced the bad Exciter with a handy Hi Cut filter.
- Made some graphic enhancements.
- Added graphical display of the peak meter range.
- Optimized the PDR function.
- Some bugs fixed.

22/1-08 v.1.6

• First official release.

