

Deconvolver AIXtreme

MANUAL

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Welcome

Thank you for buying **Deconvolver AIXtreme**, a simple, yet quite powerful software for recording impulse responses.

With **Deconvolver AIXtreme** we are offering you the opportunity to measure impulse responses with the minimum of overhead. Just plug in your hardware and start the process. What comes out of this tool is the pure essence of the device under test (whether being a room/hall/church or any other audio gear like EQs and such)

In order to achieve smooth operation and the best results with **Deconvolver AIXtreme**, please spend a few moments reading this brief manual.

License

Deconvolver AIXtreme has a simple and friendly license scheme:

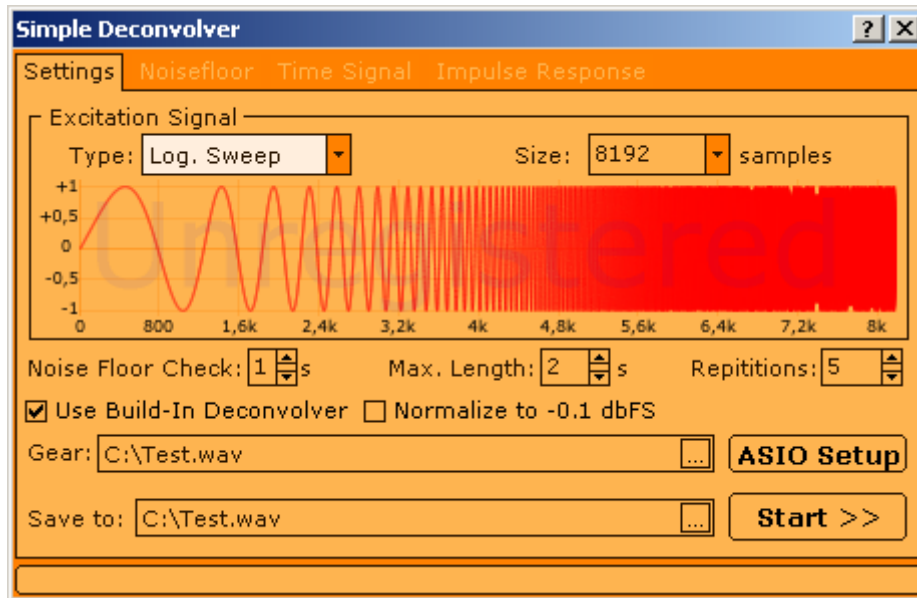
- **Deconvolver AIXtreme** is shareware. The only limitation is that an 'unregistered' string is displayed in the middle of the screen as long as the software hasn't been registered. Upon registration for a modest fee of 49.90€, this string will disappear.
- Copyright of the code and executable is held by **AIXCOUSTIC** CREATIONS and namely the author Christian W. Budde.
- The program has been thoroughly tested for quirks and errors. However, the author cannot assume any responsibility for damages that might occur using this program or from its results. The support for non-registered users is also limited.

System requirements

- A modern PC with sufficient memory.
- Windows 98 or better.
- A good sound card with ASIO support.

The program

It is very simple to master **Deconvolver AIXtreme**. The best way to learn is learning by doing. However, a few hints might be helpful:

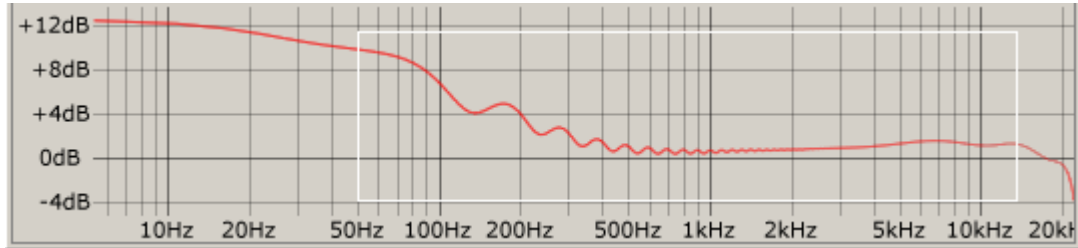


Workflow:

1. Make sure ASIO has been configured correctly (hit ASIO Setup to check). You only have to configure it once. The program will store its settings automatically.
2. Choose an excitation signal. Logarithmic sweeps will perform best. The size should then be in the range of the expected IR length.
3. If you perform the measurement for the first time, you can also check the noise level prior to the measurement. Simply set 'Noise Floor Check' to larger than 0.
4. If you have previously captured the impulse response of your electro acoustical chain (sound card, cables, etc.) you can choose this file for additional deconvolution.
5. Nearly done: Just select the output file ("Save to:").
6. Now all you need to do is press the [Start>>] button.
7. The program will automatically perform the measurement for you. You may have a closer look at the other sheets to make sure that everything is fine. You do not need to save the result separately.
8. If you need another impulse response, just hit start again!

Chart:

It is very simple to 'use' the chart. The best way to learn is learning by doing. However, a few hints might be helpful:



Use the mouse and draw a rectangle within the chart in order to zoom in.



If you would like to zoom out, simply draw the rectangle in the other direction ('Reset Axis'). This will reset the x- and y-axis to their default values.

Other things:

If deconvolution produces a long delay, you may want to increase the latency to be compensated. This may result in better deconvolution.

For post-processing of the impulse response you should keep in mind never to truncate the impulse response without windowing. A simple window function is fade-in and fade-out. Although it is not the best window, it will spread the error made due to truncation over a larger frequency range.

Feedback / Bug reports

We are always glad to receive your feedback so we can improve this plugin in the future. If you have questions or suggestions, please send an email to:

techsupport@aixcoustic.com

We hope you have lots of fun with our product.

Version history

08/03/07 Initial release

Credits

Programming & Code: [Christian W. Budde](#)

Sales & Marketing: [Patrick Marche](#)

Web-Design: [Jan Coenen](#)

ASIO name and technology © Steinberg GmbH