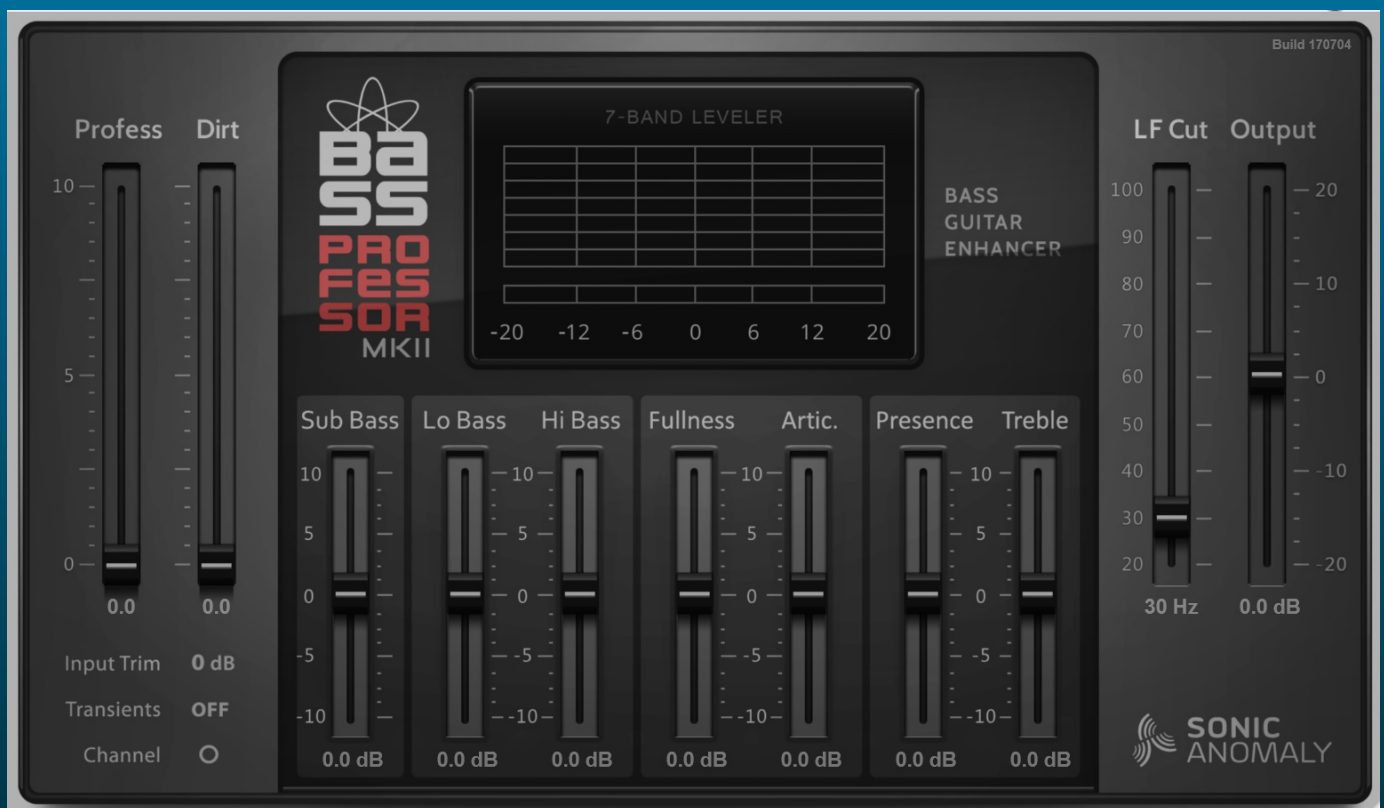# Bass Professor Mark II

Introduction

Bass Professor Mark II is a sound shaping suite for a bass guitar. It can be used to change a dull DI recorded signal into a powerfull amped-like bass sound with lots of character. Bass Professor Mark II offers dynamics processing, eq and a ruff distortion specifically suited for bass guitar.

Bass Professor Mark II is not a replacement for the first version of Bass Professor. It is meant to be an alternative for those situations (but not limited to) where more neutral and less colored bass sound is prefered.

Bass Professor Mark II has a processing latency of 64 samples, thus it is not best suited for live usage.

Technical background

Input signal is being divided into seven frequency bands, from sub bass (~30Hz) to treble (>4KHz). Each frequency band is processed separately with a compressor-leveler. Then they are being used as a seven band equalizer giving the user choice to increase or decrease each band. Then follows a distortion module and an LF cut filter. Last in the chain is a wide-band compressor taking care of finishing touch.

The controls

Profess

Controls the processing amount of the 7-band compressor-leveler.

Dirt

Controls the amount of high frequency distortion added into signal. It can be used to make your bass sound like it's being played with hard touch.

Sub Bass

Controls the amount of extra low frequencies. Usually you might not boost it, but it's good to keep in mind that 5-string bass B string has a fundamental frequency of 30Hz.

Lo Bass

Controls the lower range of usable bass frequency information.

Hi Bass

Controls the upper range of bass frequency information. You can use a bit of both Lo & Hi bass together when shaping your sound.

Fullness

The fullness slider affects the frequencies that can control how much space it occupies in your mix. Basically too much of it makes it sound muddy, but that also depends on the genre and other the settings you are using. Rock / Metal players may want to decrease it.

Artic.

The Artic. - or articulation slider - controls how articulate the bass guitar sounds. You can use it to make the details better heard. Basically, if you increase the articulation, you will also hear the note pitch much better.

Presence

The presence slider can add some agressiveness into the sound by making the tapping of strings better heard.

Treble

Controls the overall brightness of the sound.

LF Cut

LF Cut is a hi-pass filter which has a range of 20-100Hz. It has a steepness of 6dB/octave. That makes it possible to gradually cut off the sub bass without completely diminihing the fundamental frequencies.

In -6dB, In +6dB

These switches control the input trim that feeds the processor. If you have a very hot signal, you might want to try the -6dB setting. Or a very weak signal could benefit from the +6dB setting.

Transients

This switch changes the multiband compressor-leveler attack timings. When engaged, more fast transients can pass thru. It can make the bass sound more dynamic, while still having plenty of processing at the same time. The benefit of this switch depends on the playing style and how you want it to be heard in the mix.

Channel (VST version)

This control will change the processing mode between mono and stereo. Using Bass Professor on non-bass guitar tracks can sometimes create interesting sounds.

GUI Scaling Feature for HiDPI screens (VST version)

On the bottom right corner is a little hande that can be used to drag the GUI larger or smaller. This can be very welcome if using HiDPI screen.

License

You may use Bass Professor Mark II freely in commercial or non-commercial audio projects. The software files themselves (jsfx scripts, .exe, .dll, etc.) may not be publicly re-distributed alone, nor with the projects they been used with, nor with any other software without a specific permission from the author. Neither they are allowed to be sold alone or together with any other software.

The software are provided "as-is" and the author is not responsible for any errors or harm caused by using them. The author holds the copyright and distribution rights.

In addition to the license above, the JSFX scripts are holding the following terms:

Personal usage

You are allowed to modify, copy & paste the source code as you please for your personal needs.

Public usage

If you use the source codes or parts of them in other software applications or scripts which you are going to publicly distribute, you are required to request the authors permission. The usage of the source codes in any commercial products is strictly prohibited.

Copyright (C) 2013 Stige T.

VST is a Technology and Trademark by Steinberg.

Credits

The GUI was designed by crimsonmerry
https://twitter.com/twitersaya