

Rob Papen SubBoomBass Features and Specifications

System Requirements

- **PC:** 32 & 64 bits VST and RTAS for Windows XP / Vista / Windows 7
- **Mac:** 32 & 64 bits AU and VST and 32 bit RTAS for OSX 10.5 or higher
- **Mac:** 32 bit AU, VST & RTAS for OSX 10.4 (Tiger)
- **Two activations allowed, 2nd activation after registering product.**

Oscillators Section:

- 2 Oscillators with Analogue types waveforms and tuned percussion waveforms.
- Oscillator waveform Symmetry control for each oscillator.
- Free running option for each oscillator and Oscillator Syncing of oscillator 2 to oscillator 1.
- Extended semitone range going from -48 semitones up to +48 semitones.
- Separate octave control and fine-tuning.
- Keyboard tracking on/off for each oscillator.
- Each Oscillator offers Pulse Width Modulation (PWM) using an independent LFO for each oscillator with individual speed and amount controls.
- FM and Ring modulation modes for Oscillator 2.
- Each oscillator has a (PWM) square wave or sinus wave Sub-oscillator .
- Volume control for each oscillator and output on/off for Oscillator 1.

Filter Section:

- Main filter is an analogue modelled stereo Multimode Filter, offering 6dB LowPass and HighPass, 12dB, 18dB and 24dB LowPass and HighPass, 12dB and 24dB BandPass.
- 12dB and 24dB Notch, Comb and Vocal Filter
- Pre-filtering distortion.
- Easy Filter control by pre-defined Cutoff Frequency modulation controllers: Envelope, Velocity, Key-tracking, LFO and Modulation Wheel.
- Built-in Filter Envelope with Attack, Decay, Sustain, Fade and Release.
- Build in Filter LFO with various waveforms, modulation amount control and tempo sync option with speed settings between 16/1 and 1/32t.
- LFO Poly, free or mono mode options.

Filter 2 Section:

- Additional Filter with cutoff control offering 6dB, 12dB and 24dB LowPass or HighPass setting.

Filter Path:

- Additional Filter 1 and Filter 2 path selector.
- Serial mode, Parallel mode and Split mode (Osc1>Filter1 / Osc2>Filter2)

Amp Section:

- Built-in Amp/Volume Envelope with Attack, Decay, Sustain, Fade and Release.
- Volume control. Velocity> Volume amount.
- Panning control.

Free Modulation Section:

- 1 Envelopes with Attack, Decay Sustain, Fade and Release.
- Option to control the Envelopes times using "velocity" or "key played".
- Modulation Amount Envelope and amount control for this Envelope.
- 48 modulation destinations.
- 1 LFO's with various waveforms.
- Tempo sync option with speed settings between 16/1 and 1/32t.
- Poly, free or mono mode options.
- Modulation Amount and amount control for this LFO.
- 48 modulation destinations.
- 4 free modulation routings.
- 32 modulation sources.
- 48 modulation destinations.
- Secondary modulation source & control.

Play Modes Section:

- Mono/Mono2/Legato/Legato2/Sequencer/Poly Play modes
- Unison2/Unison4/Unison6/ and Octave modes with Unison detune
- Portamento featuring constant rate/constant time or held(legato) constant rate/constant time.
- Adjustable Analogness setting to simulate the instability of vintage analogue synthesizers.
- Demo C2 button to preview sounds.
- Global Tuning.
- Decay/Release Shape. This Changes the curvature of Predator's envelopes decay and release stages. From exponential to linear to logarithmic.

Overall Pitch Modulation Section:

- Tempo sync-able global Pitch LFO. You can set the amount and also which wave is used for this LFO.
- Pitch bend with separate settings for up and down pitch-bends.

Sequencer:

- 16 step sequencer
- Sequence A and B option
- Sequence A and B play modes includes split, top and join.
- Sequencer patterns can be 1-16 steps long.
- Speed setting of 1/4, 1/3, 1/2, 2/3, 1, 3/2, 2, 3 and 4x BPM.
- Overall step length.
- Swing amount.
- Slide amount for sliding steps.
- Velocity control knob which mixes between keyboard (midi) velocity input and the steps velocity settings.
- Each step has on/off, Tie, Slide, Tune, Velocity, Free, Osc1 waveform, Osc2 waveform row.
- Tie modes normal and special which allows Slide, Tune, Velocity and Free settings inside a step if that step is set to Tie. Toggle modes 1 and 2 which toggle between normal and special.

- Sequencer Latch which can be controlled by the midi sustain pedal.
- You can load, save, copy, paste and clear sequencer, so you can reuse them in different presets. .

FX Section:

- HQ effects blocks in serial mode and split mode option if Filter 1/2 are in 'Split' mode
- Available effects: Mono Delay, Stereo Delay, Comb, Reverb, Chorus, Chorus/Delay, Flanger, Phaser, Wah/Delay, Distort, Low-Fi, Amp Sim, WaveShaper, Stereo Widener, Auto Pan, Gator, Bass Enhancer, FX Filter, Equalizer, Compressor, Ensemble Cabinet, MultiDistort, Auto Wah.
- Midi tempo based settings in most effects.
- 2 FX modulation sources for connecting midi or synth controls to FX parameters.

Preset Section:

- Uses sound banks composed of 128 presets.
- Preset handling with copy, paste, clear and compare function.
- 'Quick Browser', 'Recently Browsed' and 'Favorite' functions.
- Presets are stored in clear categories banks.
- Bank manager
- More than 1000 presets

Overall:

- 6-voice polyphony in poly pay mode.
- Parameter read-out field inside preset section.
- Quick Manual build inside preset section.

