

## MoDSP Nocturne Bass

a VST synth for Windows VST audio hosts by Morten Thunø Hansen



### Installation

This plug-in can be loaded into a VST plug-in host on a windows-based computer. Simply extract "MoDSP Nocturne Bass.dll" file to your VST plug-ins directory.

### Description

**MoDSP Nocturne Bass** VSTi is a dual oscillator, subtractive, mono/poly synth with a LFO controlled filter. Made for techno, minimal, electro, drum n' bass, grime and dub step wobble bass.

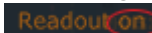
The features include:

- Up to 32 voices.
- 2 oscillators: Each oscillator has 5 different waveforms.
- Sub-oscillator.
- 3 voices true unison with stereo.
- ADSR envelope generator.
- Slide (monophonic mode with portamento).
- Sync to host tempo or free LFO with 4 different waveforms and a unlimited waveform generator.
- Save and load LFO wavetable file.
- LFO modulated 3 x oversampled low pass filter with resonance control.
- LFO waveform generator.
- LFO swing control.
- Frequency Modulation (FM).
- Wave-draw display.
- Preset manager.

## Parameters Description

### Parameter Readout

Parameter readout for all knobs and sliders can be enabled by open the about by left click the logo in the top of the synth. Readout can be set to on or off. The configuration will be stored.

A small rectangular button with a dark background and the text "Readout on" in a light color. The word "on" is circled in red.

### Shortcuts

Press and hold **CTRL** while turning knobs or sliders for more precise tweaking. **ALT + left-click** or **double right-click** a controller will set it to default value.

### ADSR



**Attack**, **Decay**, **Sustain** and **Release** controls the volume envelope.

### Pitch, Unison and Slide



**Pitch** will change the main pitch of the instrument in semitones -36 to 0.

**Unison** turns on 3 voices unison with stereo for each oscillator and sets the amount of unison detuning.

**Slide** turns on monophonic portamento mode and sets the amount of portamento. When turned off the instrument will be polyphonic 32 voices.

### Resonance, Action and Clip indicator



**Resonance** enables resonance to the filter and sets the amount.

**Action** indicates a voice or more is active.

**Clip indicator** will light up when the output reach 0 dB or louder. That indicates the sound can distort if not limited. You may want to turn main volume (Amp) a bit down or add a limiter to the effect chain in your VST host to prevent clipping.

## Oscillator section



2 oscillators with 5 selectable **waveform** shapes. This can be sine, saw, triangle, square or noise.

**FM** is the frequency modulation. Sets the amount **Oscillator1** (top) modulate the frequency of **Oscillator2**.

**Sub** enables Sub-oscillator, which is a square wave at half the frequency of the 2 other oscillators. Oscillator2 will be hard-synced to the sub-oscillator when enabled.

## Modulation section



**Unipolar:** positive LFO wave

**Bipolar:** the LFO wave is both positive and negative

**Inverse:** inverts the bipolar LFO wave

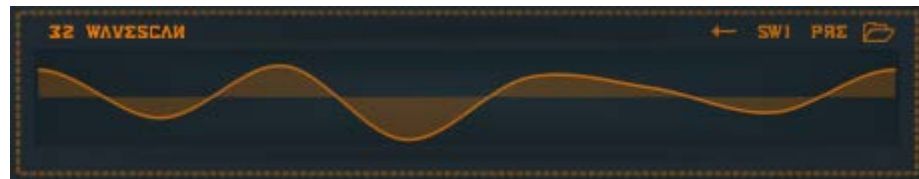
**Cut** adjusts the filter cutoff frequency.

**Depth** sets the amount of LFO filter modulation.

**Amp** controls the overall volume output.

## LFO section

## Wave-draw display



**LFO waveform selector** – selects sine, saw, triangle, square or the editable waveform generator. Left click on the waveform shape to generate a new random waveform. For a larger view of the waveform, select the **wave-draw display** in the preset manager by clicking the **WAV** label. Wave-draw display lets you edit or draw your own LFO waveform by hand. With right-click on the waveform, you can choose to generate a random waveform or reset. To save or load a waveform, open the **file menu** by clicking the folder icon. Select **PRE** to return to the preset display. The editable waveform will be automatically selected when selecting the waveform display.

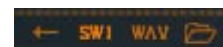
**Phase** - adjusts the phase of the LFO. - Useful for control of the LFO shape start point.

**LFO Sync** – synchronizes the frequency of the LFO to host tempo.

**LFO Speed** sets frequency of the LFO. In sync mode it controls the host rate at 2/1, 1/1, 1/2, 1/4, 1/8, 1/16, 1/32 normal (N) or 2/1, 1/1, 1/2, 1/4, 1/8, 1/16, 1/32 triplet (T) measures.

## Swing display

Select the swing display by clicking **SWI** in the top of the preset manager.



Adjust the **swing steps** 1-16 using the small arrows or simply by dragging left or right on the wave steps. **Swing amount** controls the amount of swing. Set swing amount to 0 will turn off swing.

## Preset manager



**Preset manager** contains 45 presets. 9 presets on each of 5 sites. Use the scrollbar at the bottom to switch between the 5 pages. Select preset by left click it. To rename a preset, left click on the name at the top or on the ← icon.

In the **file menu**, up right corner, you can save or load presets as single preset files (.mnbp) or all 45 presets as a preset bank file (.mnbb).

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