

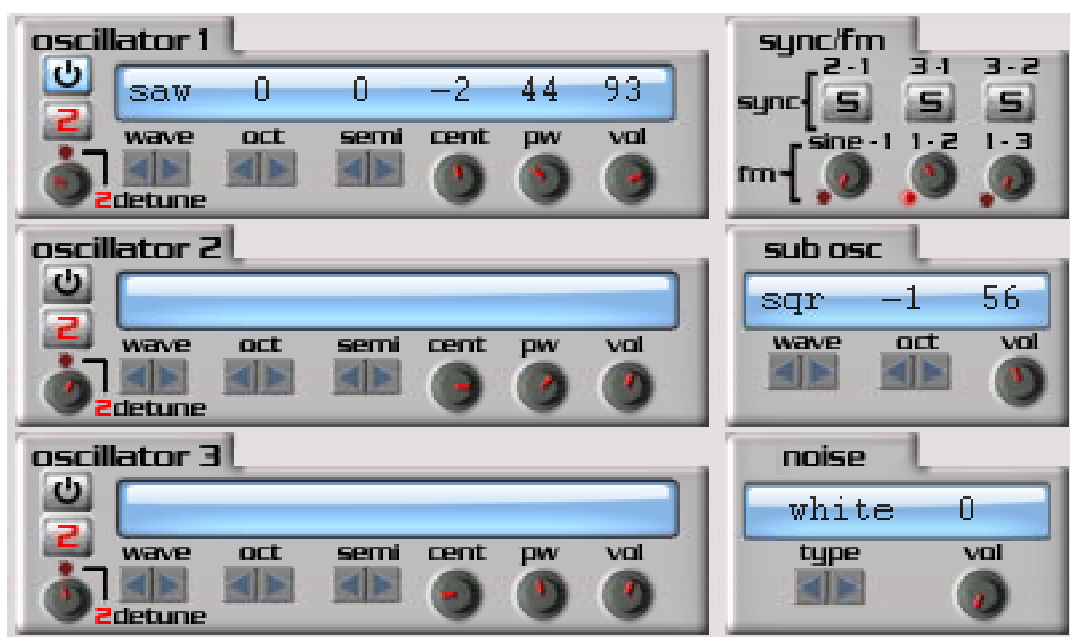


www.boxsounds.com

Dragon II Manual

To install the synth just drop the .dll file into your VST folder.

Oscillators



Main Oscillators

2 – activates the dual oscillator

2detune – detunes the dual oscillator

wave – selects one of 4 waveshapes (sine, saw, triangle or square)

octave – increases or decreases the pitch up to two octaves

semi – increases pitch up to 11 semitones

cent – increases or decreases the pitch up to half a semitone

pw – adjusts the pulse-width of the square wave

vol – oscillator volume control

Sync/FM

s – activates oscillator sync

Oscillator 2 can be synced to oscillator 1, and oscillator 3 can be synced to either oscillator 1 or 2.

FM – The first option is a separate hidden sine wave oscillator (modulator) – oscillator 1 (carrier). The second option is oscillator 1 (modulator) – oscillator 2 (carrier). The third option is oscillator 1 (modulator) – oscillator 3 (carrier). The amount of FM is controlled by the knobs.

Sub-Oscillator

wave – selects either a square or a triangle waveshape

oct – choice of either –1 or –2 octaves

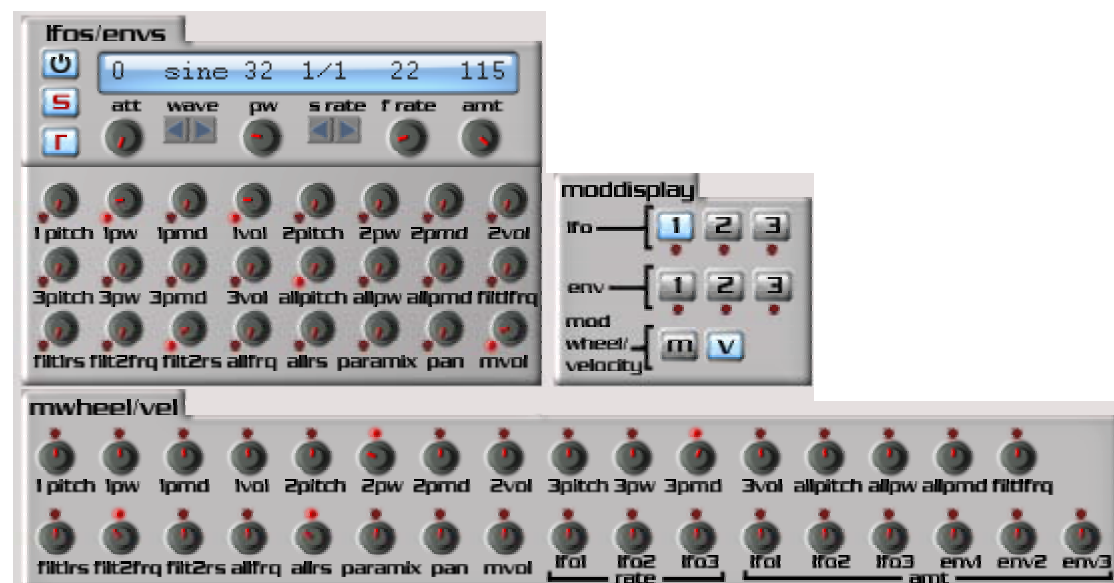
vol – volume

Noise Generator

type – selects either white or pink noise

vol – volume

Modulation



LFOs

s – syncs LFO to the host tempo

r – restarts the LFO when a note-on message is received (whenever a key is pressed)

att – controls the attack of the delay

wave – selects one of 5 waveshapes (sine, square, saw, ramp or random sample and hold)

pw – adjusts the pulse-width of the square wave

s rate – selects the rate of the LFO when synced to the host tempo

f rate – adjusts the (free) rate of the LFO when not synced

amt – adjusts the overall amount of the LFO

Envelopes

i – inverts the envelope

att – attack

dec – decay

sus – sustain

rel – release

LFO and Envelope Destinations

Each LFO and envelope can modulate up to 24 parameters simultaneously - the knobs control the amount. A few of the destinations, which might not be too apparent, are **pmd** (phase modulation depth), **allfreq** (both filter cut-offs) and **allres** (both filter resonance).

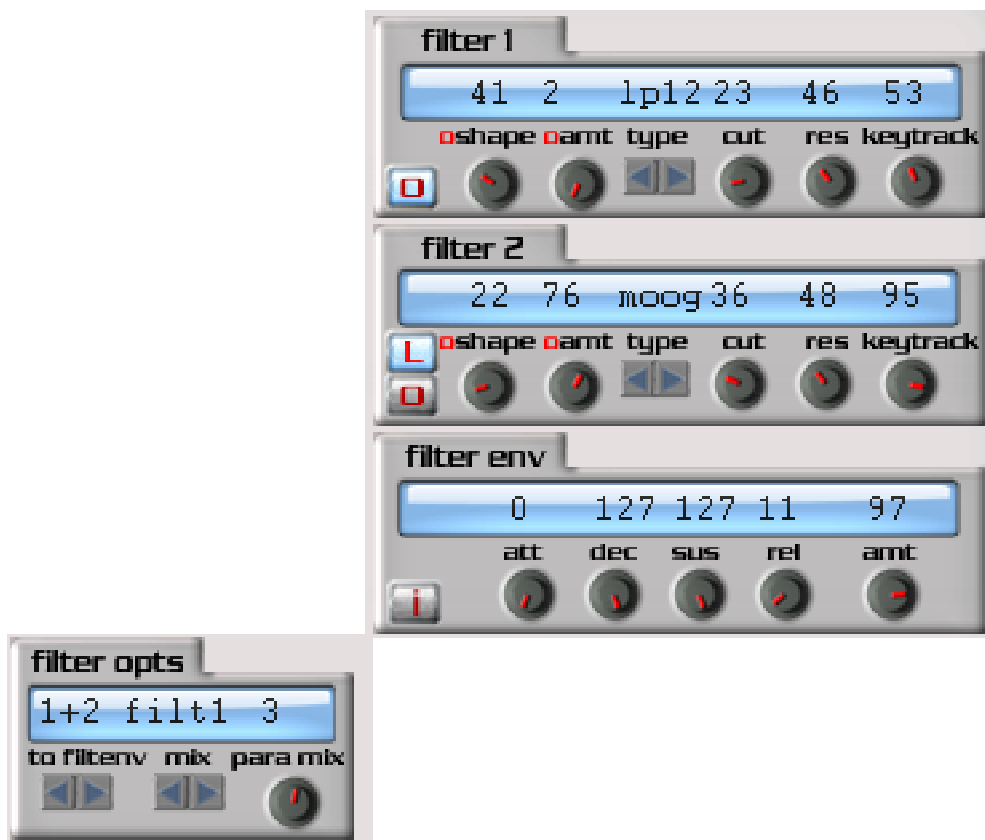
Modulation Wheel and Velocity

All the same parameters as the LFOs and envelopes can be modulated as well as the LFO free (unsynced) rates and LFO and envelope amounts.

Moddisplay

This selects the modulation source to be displayed, for example if **2** on the top row were selected then LFO 2 would be shown on the screen. The LED denotes whether the LFO or envelope is active or not.

Filters



Multi-mode Filters

- o** – activates the pre-filter overdrive
- oshape** – adjusts the overdrive amount
- oamt** – adjusts the overdrive amount
- type** – selects the type of filter (**br** – band reject, **hp12** – high pass 12dB, **bp12** – band pass 12dB, **lp12** – low pass 12dB, **moog** – moog style 24dB ladder)
- cut** – adjusts frequency cut-off
- res** – adjusts resonance
- keytrack** – adjusts keyboard tracking
- L** – when activated, filter 1's cut-off and resonance knobs control the cut-off and resonance of filter 2

Filter Envelope

The filters have their own dedicated envelope.

Filter opts

to filtenv –selects which filter/s should be routed to the filter envelope

mix – selects how the audio is routed through the filters (**filt1** – only filter 1, **series** – in series (filter 1 – filter2) or **para** – parallel)

paramix – adjusts the parallel filter mix

Amp Env



af osc – audio frequency oscillation. Selects which of the 3 oscillators is to modulate amp

af amt – amount of audio frequency modulation

att – attack

dec – decay

sus – sustain

rel – release

MIDI Learn



r – when pressed this resets the MIDI learn and wipes any assignments

l – activates MIDI learn. To use this, stop your host if it is playing, press the button, move a knob on the screen, then move a control on your MIDI controller. The light should go out signalling that MIDI information was received.

All the knobs apart from the LFO/env and the mod wheel/velocity destinations have the MIDI learn capability.



Global



mode – selects mode (**poly** – 6-note polyphonic, **legato** – monophonic legato, **retrig** – monophonic retrigger)
port – adjusts portamento time
pitch bend – selects amount of pitch bend in semitones, up to an octave
pan – adjusts pan
main vol – adjusts main volume

MIDI CC Messages

CC	Parameter	CC	Parameter
1	Mod Wheel	25	Env 1 Sustain
7	Main Volume	26	Env 1 Release
10	Pan	27	Env 1 Amount
75	Osc 1 Detune	28	Env 2 Attack
76	Osc 1 Cent	29	Env 2 Decay
77	Osc 1 Pulse Width	30	Env 2 Sustain
78	Osc 1 Volume	31	Env 2 Release
79	Osc 2 Detune	118	Env 2 Amount
80	Osc 2 Cent	112	Env 3 Attack
81	Osc 2 Pulse Width	113	Env 3 Decay
82	Osc 2 Volume	114	Env 3 Sustain
83	Osc 3 Detune	115	Env 3 Release
119	Osc 3 Cent	116	Env 3 Amount
85	Osc 3 Pulse Width	92	Filter 1 Overdrive Shape
86	Osc 3 Volume	93	Filter 1 Overdrive Amount
87	Sine – Osc 1 FM Amount	94	Filter 1 Cut-Off
88	Osc 1 – Osc 2 FM Amount	95	Filter 1 Resonance
89	Osc 1 – Osc 3 FM Amount	96	Filter 1 Keyboard Tracking
90	Sub-Osc Volume	70	Filter 2 Overdrive Shape
91	Noise Volume	71	Filter 2 Overdrive Amount
11	LFO 1 Attack	72	Filter 2 Cut-Off
12	LFO 1 Pulse Width	73	Filter 2 Resonance
13	LFO 1 Free Rate	74	Filter 2 Keyboard Tracking
14	LFO 1 Amount	102	Filter Env Attack
15	LFO 2 Attack	103	Filter Env Decay
16	LFO 2 Pulse Width	104	Filter Env Sustain
17	LFO 2 Free Rate	105	Filter Env Release
18	LFO 2 Amount	106	Filter Env Amount
19	LFO 3 Attack	107	Amp Env AF Modulation Amount
20	LFO 3 Pulse Width	108	Amp Attack
21	LFO 3 Free Rate	109	Amp Decay
22	LFO 3 Amount	110	Amp Sustain
23	Env 1 Attack	111	Amp Release
24	Env 1 Decay	5	Portamento Time

Made with SynthEdit © 2003 by Jeff McClintock (www.synthedit.com). This VSTi features modules by Chris Kerry (www.chriskerry.f9.co.uk). Additional thanks and credits to Dave Haupt (www.dehaupt.com), Oli Larkin (www.oli.adbe.org), Rune Lund-Hermansen (www.otiumfx.com), Etric Van Mayer (www.sinte-virtual.com/evmsynths).

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