



ds80

ds80 is a Logue multi-engine oscillator which emulates the digital waveform generation from the vintage Digisound DS-80-21 VCDO rack module.

Key features:

- 32 waveforms in 4+1 banks
- reproduces variable-sample-rate waveform artefacts
- alias-free sample generation
- single oscillator plus white noise
- waveforms can be selected individually or swept smoothly as a wavetable
- bandwidth limiter
- analogue tuning drift emulation
- filter EG modulation of the waveform shape

ds80 is based on the *viper* synth engine which uses additive synthesis generate high quality waveform output without aliasing.

For information on the DS-80-21 VCDO see <http://www.digisound80.co.uk/digisound/modules/80-21.htm>.

Parameters and Controls

Use the *Shape* control select the waveform within the bank. If the *Step* parameter is 1, the individual waveforms are selected. If the *Step* parameter is greater than one, the wave shape changes smoothly as the shape is adjusted.

Use *Shift-Shape* to mix between the oscillator and the white noise generator.

Parameter	Range	Function
Bank	1 – 5	Selects the waveform bank. 1 => the first bank of 8 waveforms 2 => the second bank of 8 waveforms 3 => the third bank of 8 waveforms 4 => the fourth bank of 8 waveforms 5 => an additional bank containing all 32 waveforms in sequence
Step	1 – 10	If set larger than 1, allows progressively smoother interpolation between waveforms.
Pitch	-100 – 100	Sets the pitch of oscillator 1, over a range from 1 octave below to 1 octave above. The adjustment is non-linear, providing finer control over detuned around zero. Be aware that the Logue software may default the pitch value to -100, resulting in sounds an octave lower than might be expected.
Bandwidth	1 – 16	Controls the oscillator bandwidth. Values greater than one gradually reduce the number of high frequency components.
Drift	0 – 100%	Sets the amount of analogue drift. Each voice will drift independently.
FEG Gain	0 – 100%	Sets the Filter EG modulation gain. If non-zero, the filter envelope is used to modulate the shape, allowing automated sweeps between waveforms. (<i>Prologue and Minilogue-XD only</i>)

Downloading and Feedback

Information and updates can be found at <https://tsoniq.com/software/korg/viper>.

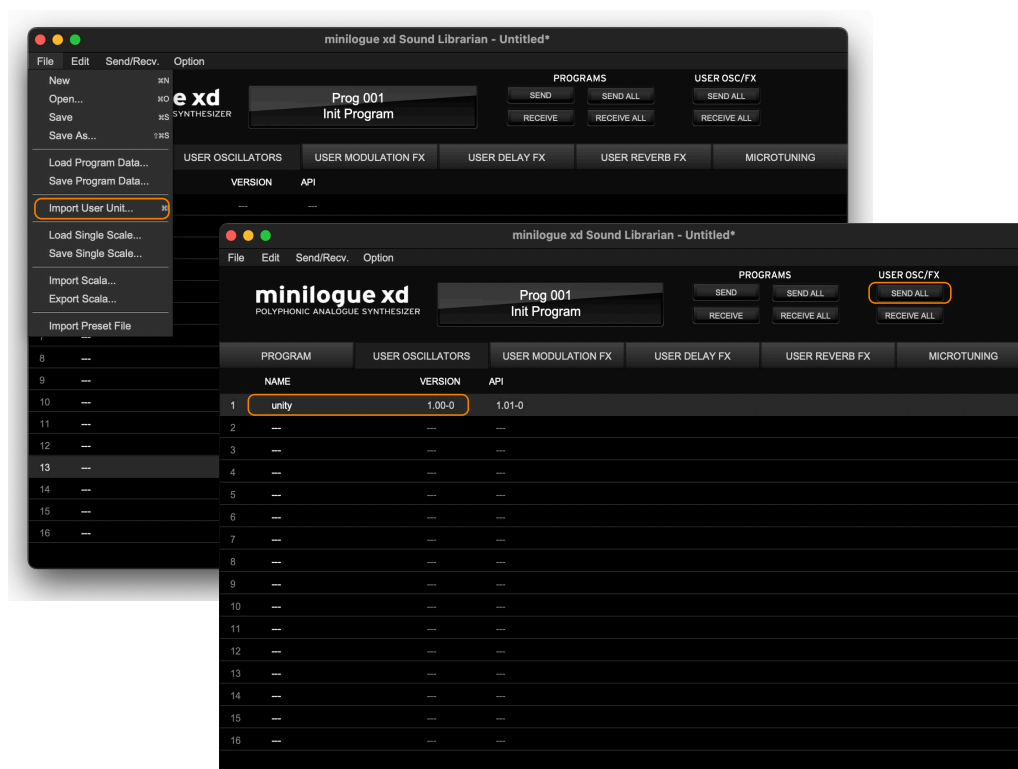
You can send feedback by email to logue@tsoniq.com, or leave a comment on the download page.

Installation

ds80 is supplied as a zip archive containing three units:

ds80.prlgunit	Prologue 8 and 16
ds80.mnlgxdunit	Minilogue XD
ds80.ntkdigunit	NTS-1

Use the appropriate Librarian application (available from <https://korg.com>) to send the appropriate unit to the synthesiser.



Requirements

ds80 requires a Korg NTS-1, Minilogue XD, Prologue 8 or Prologue 16.

Installation requires the use of a PC or macOS computer and the Korg Librarian software appropriate for the synthesiser.

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Release History

Version	Release Date	Changes
1.0	21-Dec-2023	Initial release.
1.1	28-Dec-2023	Corrected the bank count. Incorporate velocity in the Filter EG Modulation.