



DA-01

Mono/Duophonic Dirty Analog

Overview

DA-01 is the test synth for concepts in dirty sound generation used in the larger DA-80 synth. DA-01 has a charm and sound of it's own because of the filter and the simple architecture which is reminiscent of early analogs such as Jupiter 4. You'll have fun with the DA-01.

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Credits:

David Haupt for code - <http://www.dehaupt.com/SynthEdit/semmodules.htm>
 Scoofster for code - <http://scp.web.elte.hu/synthedit/modules.html>

OSC

- **Shape** – choose from Sine, Triangle, Saw or Pulse wave
- **Tune** – detune the pitch of the whole synth (great for layering)
- **PWM** – adjust the width of the Pulse wave from Square to infinite (pin-thin)
- **Analog Amount** – set the amount of drift sent to the OSC and Filter
- **Analog Shape** – vary the Drift shape from a slow random sine to noise
- **Env** – sets the amount of the Envelope sent to the OSC pitch
- **Octave** – shift the synth +/- 1 octave

Filter

- **Filter** – sets the cut-off point for the filter (low pass)
- **Reso** – emphasise the Filter cut-off point. Be careful as this can get pretty fiery or LOUD!
- **Env** – sets the amount of the Envelope sent to the Filter cut-off

LFO

- **Mod Wheel** – acts as a slave to the LFO to OSC (vibrato) control
- **Shape** – choose the LFO wave shape from Sine, Triangle, Saw or Pulse (Square) wave
- **Speed** – LFO modulation speed
- **OSC** – set the amount of modulation sent to the OSC – this amount is the maximum modulation amount which is then set by the Mod Wheel
- **PWM** - set the amount of modulation sent to the OSC Pulse Width (Pulse Wave only)
- **FILT** – set the amount of modulation sent to the Filter cut-off
- **AMP** – set the amount of modulation sent to the Amplifier Volume
- **S&H** – switch between standard LFO and Sample & Hold modulation. Different LFO wave shapes will affect the S&H modulation shape

Env

- **A** – sets Attack time for the envelope
- **D** – sets Decay time (to Sustain level) for the envelope
- **S** – sets Sustain level for the envelope
- **R** – sets Release time for the envelope

Master

- **Gate/Env** – choose between having the Volume respond to the Envelope or be set to an On-Off Gate (like an organ)
- **Mono/Duo** – Monophonic allows only one note to be played at a time. Duophonic allows 2 notes at once.
- **Porta** – sets the glide time when notes are played Legato (overlapped)
- **Pan** – sets sound in the stereo field
- **Volume** – master Volume for the whole synth (may need to be lowered when assigning LFO to AMP). The LED indicates clipping.

Hints

The simple architecture makes synths like the DA-01 rather fun to use (and learn about synth programming). Sure you can't do everything that an uber-synth can but at the same time the limits imposed really help fire your creativity.

Imagine it is 1975 and this is the most cutting edge instrument out there. See what you can create with it.

Have Fun

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