

Grone 2 Dark Drone machine Pedal Version



Blocks description

Drone VCO :

Generates sound based on equations converted to analog signals , there are sixteen equations selected by algorithm up pot. Four leds indicate equation number in binary mode. Three Pots modify numbers used by the equation, A0 , A1 and A2 , fourth pot Sample Rate controls pitch and speed of the oscillation. There's an expression jack input, EXP2 for controlling sampling rate.

NOISE GENERATOR : White noise with noise level pot.

Voltage Controlled Filter: MS20 resonant low pass filter , with CUT frequency pot control , RESONANCE , MODULATION 1 amount pot , Expression jack input 1 controls filter cutoff.

LFO1 : Low frequency oscillator routed to MOD1 from VCF , RATE and WAVEFORM shape Pots.

Waveforms are : ramp up, ramp down, square, triangle, sine , sweep, random levels, random slopes

FUZZ Section :

gain stage that affects input signal , with controls for input gain and level .

Effects Section:

Consists of a chorused reverb with delay , adding octave up or down component , with freeze function

Pots controls:

- 1-Blend controls mix of effects over final output signal
- 2-Octave blends mix a pitched signal to the input of the reverb
- 3-Octave -1 +1 controls tuning of pitch component
- 4-Repeat controls feedback of delay component
- 5-Balance controls mixture from reverb and delay.
- 6-Pitch controls the sampling rate of the whole effects section , modifying delay time and reverb decay.

Footswitches:

1- Synth : mutes or enables the drone VCO and noise generator

2-Filter : Bypass for the VCF

3-Fuzz : Bypass for the fuzz that processes the input signal.

4-reverb : Bypass for the reverb/delay section

5-Freeze : toggles freeze function for reverb section

Jacks :

Input, Expression 1 input (VCF) Expression 2 (VCO sample rate) , Output