filterdrve

First of all, thank you for purchasing this filter module.

The filterdrve is an analog low- and highpass filter for the api 500 series.

This filter is the same as used in the famous Korg MS-20 synthesizer, but with some added features like overdrive, audio feedback control and a controllable gain structure. The unit also features balanced in- and output and low noise ne5532 opamps, for superior noise performance, while retaining the squelching noises of the original.

This unit was made for playing around, so be sure to do that and get to know how the different controls react, and also interact with each other.

Some things to take note of when using the filterdrve:

- The unit is installed like any other 500 module. The back of the module slides into the card edge connector in the back of your 500 series rack. Please switch off your 500 series rack before installing. The frontpanel can be fastened with m3x6 screws or the screws that came with your 500 series rack.
- The filterdrves gain structure is designed like an analog console. Audio flows from top to bottom, starting with the drive control and ending at the output control.
- Please ensure a good input level going into the unit.
- The lpf - hpf switch switches the unit from low pass filter mode to high pass filter mode. In low pass filter mode high frequencies are cut, and vice versa.
- The input control adds up to 35dB of gain to the input signal so the filter can be pushed to its limit. The input control all the way to the left is unity gain (0dB). The drive led is a visual indicator for when the signal is starting to saturate.
- The cutoff control is the control for at which frequency the filter starts working.
- Peak is the resonance control, self-oscillation can be attained with the control all the way to the right.
- The feedback control feeds the audio signal back into the cutoff control. This allows for some complex waveshaping, and works best with mid frequency content. The feedback control is very dependent on what kind of audio material is going into the unit, so take some time and play with it.
- The output control goes from -inf dB to +10dB, like a fader. A good starting point is unity gain (0dB).
- The bypass control hardware switches the filter out of the audio path using a relay. An led on the circuit board labeled filter_engaged lights up when the filter's circuit is switched on.

I hope you make some great music with the filterdrve.

Please keep an eye on www.singularaudio.nl for new products, and follow @singularaudio on Instagram for everything I'm working on.

All the best,

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