

The Wolf

pgh



The idea was to design a Channel Strip VCA that makes everything sound better.

The Wolf is a Channel Strip VCA designed to improve and provide more control over any input source. It does this using three unique circuits.

Wolf Preamp

The Wolf's Preamp is a custom preamplifier with variable gain control shifts between .5x* and 7x gain followed by a soft-clipping limiter. The soft-clipping limiter is a way to control the amplitude of the signal while avoiding harsh distortion. Depending on how hard it is pushed, the results of running a signal through this circuit range from fully transparent to warm saturation to overdrive.

Wolf 3 Stage Semi-Parametric EQ

The Wolf has a three-stage Semi-Parametric 15db EQ featuring sweeping low and mid-range channels, as well as a fixed frequency high shelf. The EQ section is followed by an additional soft-clipping limiter identical to the one in the preamp. This evens out the signal keeping the audio sounding smooth.

Wolf VCA

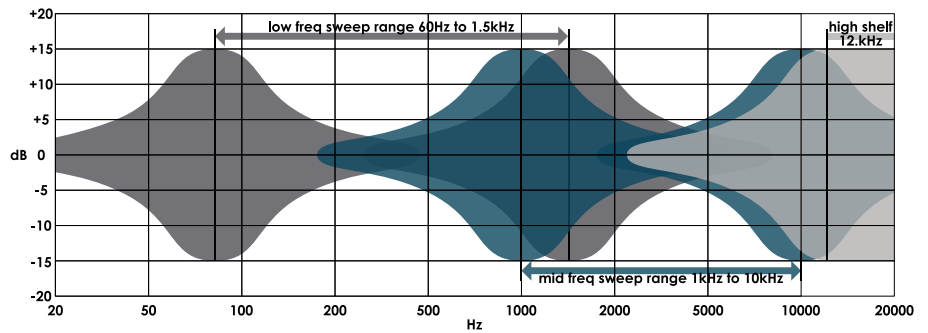
The Wolf's VCA is a low noise, high quality, linear voltage controlled amplifier with both manual level and CV attenuator controls.

Metering

No channel Strip would be complete without metering. Wolf's LED Meter provides Green, Yellow, and Red LEDs for fun and informative listening. Located after the EQ and before the VCA in the signal path, the LEDs offer useful insight into the audio signal.

*I know the panel says 1x but we decided at the last minute the module would be a bit more versatile if the preamp gain started below unity to better deal with stronger incoming audio signals. -Richard

The sound of The Wolf was inspired by analog recording. Multiple opportunities for saturation paired with a vibe-y EQ create a lively signal processor.



Knobs, and Jacks

Drive Knob Sets the incoming signal level between .5x and 7x gain. Incoming audio signal will start soft clipping when the signal hits 5v.

High Shelf Knob A fixed frequency boost/cut control at 12.5 kHz with a range of +/-15 db.

Mid Frequency Knob Adjust mid range frequency center point. Frequency sweep range 1kHz to 10kHz.

Mid Level Knob Boost/cut control for selected mid range frequency with a range of +/-15 db.

Low Frequency Knob Adjust low range frequency center point. Frequency sweep range 60Hz to 1.5kHz.

Low Level Knob Boost/cut control for selected low range frequency with a range of +/-15 db.

Output Knob Manual output level control.

Output CV Knob Output level control voltage attenuator.

Input Jack Audio input.

Level CV Jack CV input used to modulate the output level.

Output Jack Audio output.



Specs

Size 8hp

Depth 24mm

Power +12v 90 mA / -12v 55 mA