APERTURE

Hello, and thank you for your purchase!

The idea that sparked the Aperture was to create a steep, variable width bandpass filter for transparently processing program material. We then pushed, tweaked, fed-back, and CV'd the concept into a precisional hot mess.

This module underwent a lot of strenuous testing in both live performance and studio settings in order to make sure the voicing would be perfect.

The result is a bandpass filter with independent controls over all aspects of the filter. 2 unique feedback modes and a dry/wet mix for parallel effects.

Use as a subtle high / low frequency reducer or as a squelchy, raunched out acid hound.

The choice is yours.

Panel functions

Leds along the top indicate width and postion

Knobs

Frequency: Controls the center frequency of the band

Width: Controls the width of the band.

Freq CV: Attenuator for the CV input for precise control over the Frequency of the filter.

HP Res: Controls the amount of resonance on the High Pass side of the filter.

LP Res: Controls the amount of resonance on the Low Pass side of the filter.

Input Level: Attenuates the input level. Will boost signal at around 75%.

Feedback: Controls the amount of feedback for more self oscillation and squelchy behavior.

Dry/Wet Mix: You know what this means ;)

Width CV: Attenuator for CV control over the width of the filter.

Jacks

1V/ Oct: The aperture's cutoff frequency will track at 1V/oct. This is the input for that.

In LVL: Input for CV control over the input level attenuation.

Freq: CV input for control over the cuttoff frequency.

Width: CV input for control over the width of the band.

FDBK: CV input for control over the feedback amount.

Input: This is where your audio signal you want to filter goes.

Output: This is where the filtered audio signal comes out.

HPCV: CV input for independent control over the cutoff frequency on the high pass side of the filter.

LPCV: CV input for independent control over the cutoff frequency on the low pass side of the filter.

HP Res: CV input for control over the resonance on the high pass side of the filter.

LP Res: CV input for control over the resonance on the low pass side of the filter.

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Specifications:

Current:
+12V = 120mA
-12V = 100mA
HPF: 4 pole
LPF: 4 pole
Depth: 25mm
Width: 12 HP
Height: 3U Eurorack
Input Gain: -90dB to +6dB
Nominal Input: 10Vpp
HPF Cutoff Freq Range: 0.5 Hz to 50kHz
LPF Cutoff Freq Range: 0.1Hz to 25kHz

Self oscillation of both filters throughout audio range.

Four octaves minimum V/oct tracking.
Temperature compensated.