ORANGE GATE

Orange Gate v2.1.0 User Manual

Vain Audio 2025

Orange Gate

Orange Gate is a simple gating and compression plugin with a couple optional advanced features. Both the gate and the compressor can be triggered by sidechain input. The trigger signal can also be filtered to focus on specific frequencies within the signal. This makes for gating and compression that is easy to use and surprisingly flexible.

Input Triggering and Filtering

Orange Gate allows the input signal that drives both the gate and compressor to be filtered. The incoming trigger signal is first processed with a LP/HP/BP/BS filter before calculating its amplitude. This means that the gate and compressor can be driven by the isolated low frequency of the input signal, for example. The gate and compressor can also be triggered by a sidechain input.

Gate

The gate is the first step in Orange Gate's signal flow. The purpose of the gate is to mute the input signal if its amplitude is below a certain threshold. You can think of it as a regular gate that opens when the number of people trying to get through it passes a certain number. When the audio coming into the plugin is loud enough, the plugin allows it to pass through. The Attack and Release sliders determine how quickly the gate opens and closes. The Threshold slider determines at what amplitude level the gate should open.

A. **Enable:** Enable the gate.
B. **Enable Sidechain Input:** Drive the gate by a sidechain signal.
C. **Gate Attack:** Adjust the time it takes for the gate to enable.
D. **Gate Threshold:** Adjust the amplitude at which the gate kicks in.
E. **Gate Release:** Adjust the time it takes for the gate to disable.
F. **Enable Trigger Signal Filtering:** Enable filtering the trigger signal.
G. **Set Trigger Signal Filter Type:** Set the type of filter that is applied to the trigger signal.
H. **Solo Trigger Signal:** Listen to the trigger signal.

I. **Set Cutoff and Resonance:** The spectrum analyzer area is an X/Y pad that allows you to quickly set the cutoff and resonance of the trigger filter.

Compressor

The compressor is the second part of Orange Gate's signal flow. It works by decreasing the amplitude of the input signal when it gets too loud. The level at which the compressor kicks in is adjusted using the compressor's Threshold slider. The Ratio slider determines how much the signal is attenuated as a ratio of its original amplitude. As with the gate, the Attack and Release sliders adjust how long the effect takes to turn on and off.

A. **Enable:** Enable the compressor.
B. **Enable Sidechain Input:** Drive the compressor by a sidechain signal.
C. **Gate Attack:** Adjust the time it takes for the compressor to enable.
D. **Gate Threshold:** Adjust the amplitude at which the compressor kicks in.
E. **Gate Release:** Adjust the time it takes for the compressor to disable.
F. **Enable Trigger Signal Filtering:** Enable filtering the trigger signal.

G. **Set Trigger Signal Filter Type:** Set the type of filter that is applied to the trigger signal.
H. **Solo Trigger Signal:** Listen to the trigger signal.
I. **Set Cutoff and Resonance:** The spectrum analyzer area is an X/Y pad that allows you to quickly set the cutoff and resonance of the trigger filter.
J. **Compression Ratio:** Adjust how much the compressor attenuates the signal as a function of its original amplitude.

Acknowledgments