

# SATURATE



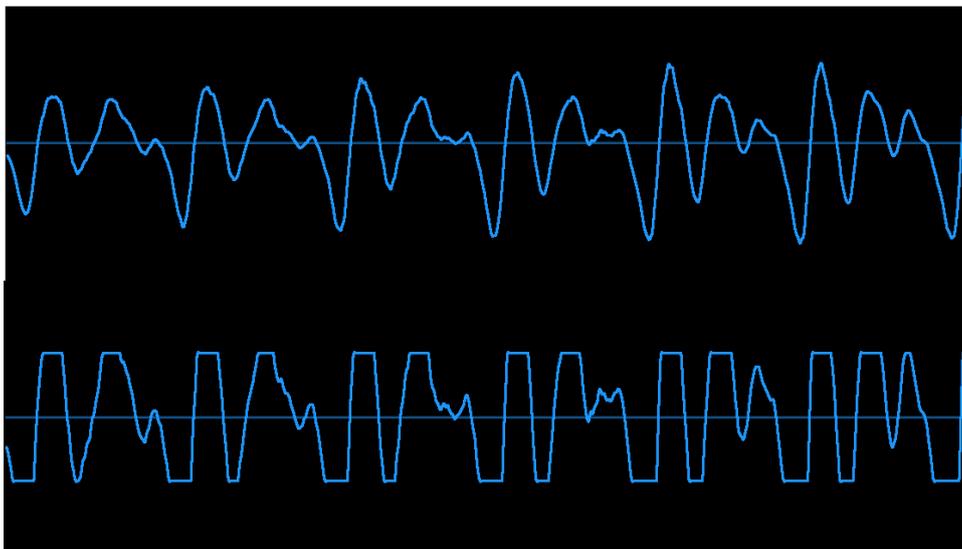
## DESCRIPTION

**Saturate** is a simple saturation plugin.



It is not aimed to replicate the saturation of a particular device, it just makes a saturation in the strict sense of the term.

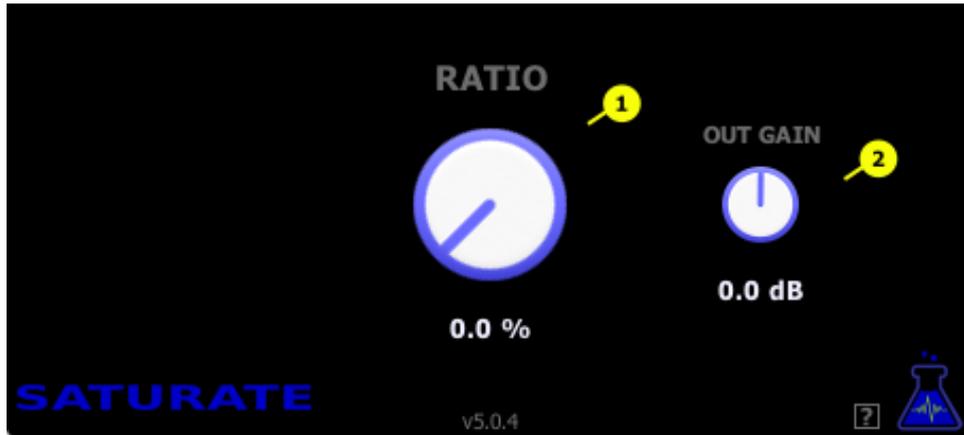
The plugin processes the waveform to make the saturation effect, by cutting the waveform as soon as the level exceeds a threshold value. The output gain is then automatically adjusted to correct the loss of global level.



**A waveform before and after the processing using the SATURATE plugin**

For a better quality, an oversampling of x4 is used for the processing.

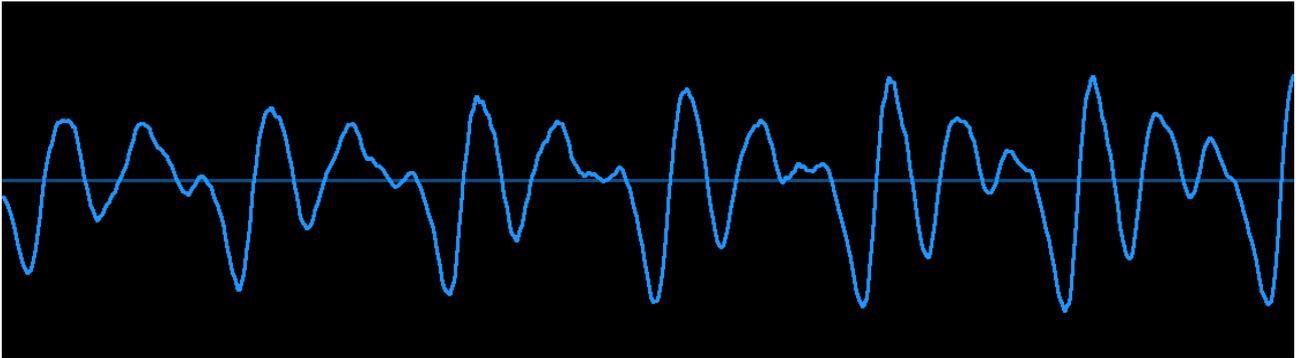
## USAGE



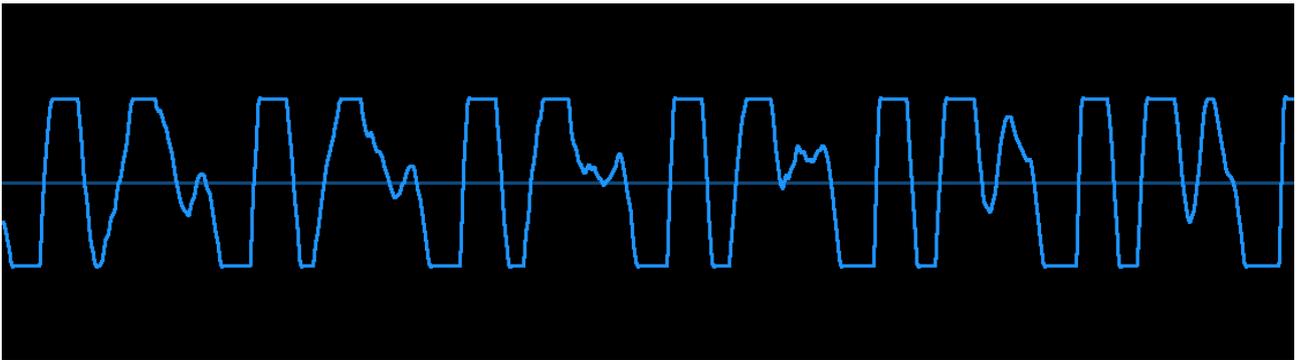
The **RATIO (1)** parameter sets the saturation rate. With a value of 0%, the signal is not modified. With a value of 99.9%, the saturation is set at the maximum.

The **OUT GAIN (2)** parameter adjusts the output gain, from -24dB to 24dB. It can be useful to reduce the gain when it was increased by a high saturation. Moreover with a high saturation, the volume is perceived higher compared to a clean signal.

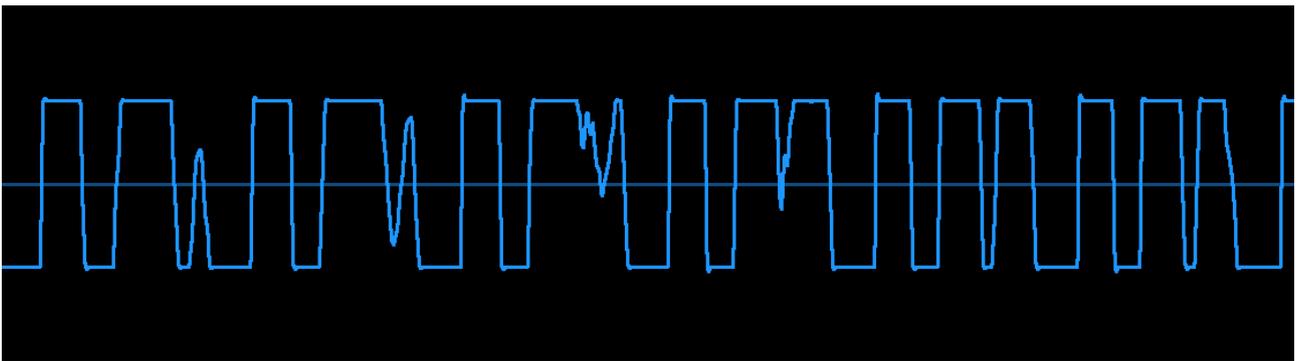
## APPENDIX – WAVEFORMS



Original signal (singing voice)



Saturated signal - RATIO (1) set to 80 %



Saturated signal - RATIO (1) set to 95 %