

# GSat+

## Saturation Plug-in

Made in association with the admin team at Gearspace.com



## USER MANUAL

**TBProAudio**

## Introduction

Thanks for downloading GSat+, an exclusive saturation plug-in featuring an incredible saturation algorithm, VU meters, clip protection and over sampling. Although derived from the saturation module in our [CS5501V2](#) channel strip plug-in, the team at [Gearspace.com](#) suggested a few new tricks and features that we've incorporated to help make this plug-in stand alone as a superb tool that will cover all your saturation needs.

## Features

GSat+ offers the following features:

- Saturation with three different “tube-based” character modes
- Clip protection
- VU meters
- Signal monitoring
- Over sampling
- Smart plug-in bypass
- Mono mode on stereo channel
- Preset management
- Large and easy to use freely-scalable GUI
- 64-bit internal processing
- Very efficient CPU usage design
- It's free!

## Minimum System Requirements

- Windows 7, OpenGL 2 GFX card
- Mac OS X 10.11, Metal GFX card
- SSE2 CPU
- Win: 32/64 Bit VST, 32/64 Bit VST3, 32/64 Bit AAX
- OS X: 64 Bit VST, 64 Bit VST3, 64 Bit AU, 64 Bit AAX
- Tested with: Ableton Live 9+, Cockos Reaper 5+, Image Line FL Studio 12+, Avid Pro Tools 2018+, Reason Studios Reason 9.5+, PreSonus Studio One 4+, Steinberg Cubase 9+/Nuendo 10+ and Wavelab 6+.
- For the latest information please visit [www.tbproaudio.de](http://www.tbproaudio.de) and/or [www.gearspace.com](http://www.gearspace.com)

## Overview



- The Top area contains the plug-in menu and the preset selection drop-down menu.
- The Meter section contains large analog-style VU meters, input/output trim and mix controls and the monitor selection function buttons.
- The Clip/OS/Bypass section contains some additional extended plug-in functions including over sampling and a smart bypass.
- The Saturation section contains the controls for the saturation function like odd and even harmonics.

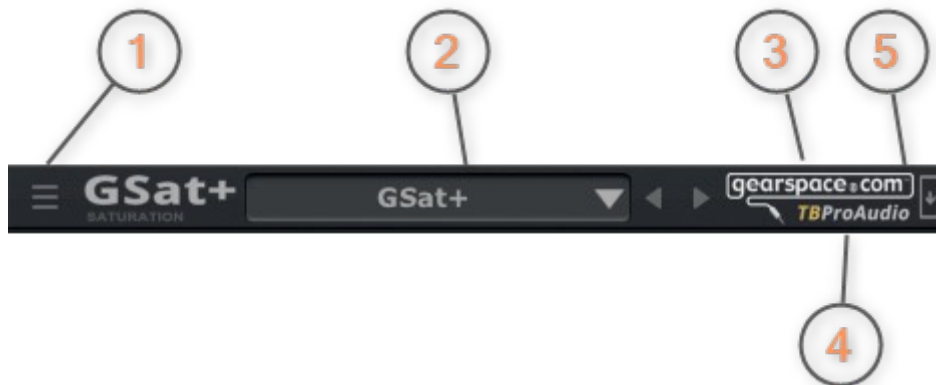
# Plugin Controls

## Mouse Operation

- Clicking-and-dragging horizontally changes a parameter value.
- Shift-click and drag to change parameters in smaller increments.
- CTRL-click resets a parameter to default value.
- Double-click on a parameter text value opens text entry for manual editing.

Auto-activation: changing any parameter will enable the effect itself if it has previously been disabled/bypassed.

## **Top area**



### **1) Plugin menu**

#### **About**

Get info about the plug-in.

#### **Open Manual**

Opens this instruction manual.

#### **Changelog**

Opens online changelog.

#### **Check for updates new**

Checks online information about updates.

#### **Check for updates automatically**

Enable automatic update check during startup. This switch affects all instances.

#### **Enable Tooltips**

Toggles GUI “hints” - mouse over any plug-in function for a brief description of what it does.

## **Reset GUI Scale**

Resets the GUI scale to default (100%).

## **Set Min GUI Scale**

Set GUI to minimum GUI scale (50%).

## **Hide knob overlay text**

Prevents the display of the parameter value during adjustment if you want to keep it “old-school”.

## **Fore Mono Mode**

Gsat+ detects current channel configuration automatically. Some DAWs provide only stereo tracks even for mono audio material. In case you process mono audio on a stereo track enable to save resources.

## **Clip Position**

Sets the position of the clip module either post or pre output trim control.

## **Fixed GUI scale**

Sets the GUI scale to defined sizes.

## **2) Preset Menu**

Click the Preset Menu to load factory presets and manage user presets. Presets copied to/stored in %localappdata%/GSatPlus (Windows) or /Users/xxx/Library/Application Support/GSatPlus (Mac OSX) are imported as user presets.

## **3) Gearspace logo**

Click to open the Gearspace website at the GSat+ discussion thread to swap tips, tricks, presets and talk about how you are using this plug-in!

## **4) TBProAudio logo**

Click to open the TBProAudio website.

## **5) Update check**

Icon glows if an update is available.

## Meter Section



### 1) Meter

IN/OUT VU meter with standard ballistics. 'Left' shows the current meter value (in dB/LU/VU), 'Right' shows the maximum value. Clicking on the meter to reset it. The red LED indicates values above 0 have been detected.

### 2) Meter mode

Click here to change the meter mode: PEAK (dB), RMS (dB), EBU ML (LU), EBU SL (LU) and VU (dBVU). RMS uses 600ms ballistics, VU 300ms.

### 3) Meter display mode

Sets the current meter display mode: IN or OUT.

### 4) Meter calibration

Controls the reference level of the Left/Right IN/OUT meter, in dBFS.

### 5) Monitor

Controls the main monitor mode: either stereo (normal), left, right, mid or side signal.

### 6) Monitor mode

Sets the monitor mode either to in-place or centered.

### 7) Input trim

Adjusts the input gain of the plugin.

### 8) Output trim

Adjusts the output gain of the plugin.

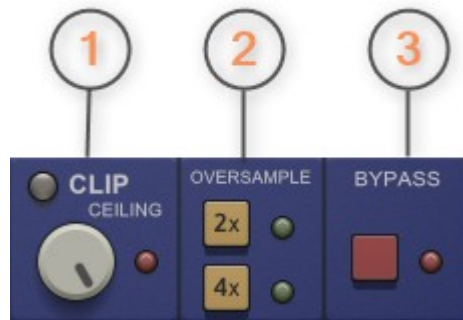
## 9) Link output to input trim

If input trim is increased, output trim is decreased and vice versa.

## 10) Mix

Adjusts input/output signal ratio including input/output trim, clip and saturation.

## ***Clip protection, OS and Bypass***



### 1) Clip protection

Toggles clip protection, if the enabled signal is clipped at ceiling level, in dBFS. The red LED lights if signal is above ceiling level, regardless if clip protected is enabled or not. Set the clip position either pre or post trim control (plugin menu).

### 2) Over sampling

The incoming signal can be over sampled up to 2 or 4 times. Over sampling reduces magnitude/phase distortions near the Nyquist frequency and let the filter sound much more "analogue" at the expense of CPU power.

### 3) Bypass

Global smart plugin bypass, plugin delay compensated.

## Saturation



The saturation effect emulates several tube styles with odd and even harmonics.

### 1) Off/On

Enables the saturation module (“on” when “lit”).

### 2) Stereo placement

The stereo placement can be set to stereo/left/right/mid/side.

### 3) Tube Character

Selects between ‘clean’, ‘warm’, ‘crisp’ or ‘classic’ saturation types.

### 4) Stages

Sets the number of tube stages to enrich the effect - more stages = more tubes!

### 5) Fluctuation

Controls the amount of saturation fluctuation, in percent. Increase this to add a more random character to the saturation at work, decrease for a more ‘steady’ effect.

### 6) Odd

Controls the amount of odd harmonics added to the signal, in percent.

### 7) Even

Controls the amount of even harmonics added to the signal, in percent.

### 8) GUI scaling

Click and drag to scale the GUI. CTRL+mouse click resets the GUI to 100% scaling.



## Conclusion

Thanks for checking out GSat+, we can't wait to hear what you do with it and we are also always open to suggestions and feedback. Get in touch with us via the [product thread at Gearspace](#) or at our website at [www.tbproaudio.de](http://www.tbproaudio.de) and tell us what you think - and please feel free to check out our other plug-ins including a bunch more FREE tools for your DAW. Happy saturating!



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