

NEWFANGLED AUDIO

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Saturate proudly uses the PFFFT library, which is available at <https://bitbucket.org/jpommier/pffft>.

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Chapter 1

Newfangled Audio Saturate



Saturate is a saturation plug-in made popular as the final Spectral Clipper stage in the Elevate plug-in. Saturate has two controls which belie a sophisticated signal processing engine which allows it to overdrive a signal without effecting the tonal balance or allowing the signal to get "tubby". This makes it ideal for overdriving an entire mix, but it works quite well on individual instruments as well. Consider placing it after Punctuate to transparently treat the transients that you may have boosted.

Chapter 2

Installation and Instantiation

Like other plug-ins Eventide distributes, Saturate uses PACE's iLok.com licensing system, with or without an iLok hardware dongle. Each license provides two activations which can reside on either your computer or on an iLok license dongle. Once you've purchased your plug-in, you'll need to register it on Eventide's website, activate your license, and install the plug-in on to your computer.

2.1 Registering Your Plug-in

When you purchase Saturate, you'll receive a Serial Number and License Key. The Serial Number will be two letters followed by 6 numbers. If you have an individual Saturate license, the Serial Number will start with NQ (i.e. NQ#####). The License Key will be 3 sets of 4 characters, a letter or a number, each; like XXXX-XXXX-XXXX.

Once you've received these codes, you can register your plug-in on the Eventide website. To do so, please log in to <http://www.eventideaudio.com>, navigate to My Account in the top right corner, and select Register a New Product. Then, fill out the form by selecting Native Plug-in (VST, AU, AAX) in the Product Category field, select Saturate in the Product list, and enter your Serial Number, License Key, and iLok.com account name. If you don't yet have an iLok.com account, you can create one for free at <http://www.ilok.com>. Once you've done so, press Register.

Once you've entered this information and pressed the Register button, Eventide will send the applicable plug-in license to your iLok.com account, which you will need to activate to your computer or iLok dongle.

2.2 Activating Your License

To activate and manage your plug-in licenses you'll need to install PACE's iLok License Manager software which you can download from <http://www.ilok.com>. If you don't have this software installed, please download and install it now.

Once you have installed and launched iLok License Manager you should be able to log in to your account by clicking the large "Sign In" button in the upper left hand corner of the application. Once you have, you should be able to see available licenses by choosing the Available tab at the top of the iLok License Manager application. If you have successfully registered your plugin, your Saturate Native license will be available in this list. Please activate this license by dragging it to either your computer or iLok dongle listed on the left. When you do so, you will be asked to confirm the activation, and you will be able to see it by clicking on the location you have chosen. At this point your license is activated.

2.3 Installing Your Plug-In

You should have been given a link to the Saturate plug-in installer when you purchased your plug-in, but if you haven't, you can find downloads for all of Eventide's Native Plug-Ins at <http://www.eventideaudio.com/products/plugins>. Please download and launch the correct installer for your system.

Once you've launched the plug-in installer, it will take you through several pages of options. We have tried to choose defaults for these options which will best serve the majority of users, but it is worth a minute to make sure you understand these options before clicking through to the next page. A common issue with Windows VST plug-ins is choosing the correct VST directory, which can be different on each system. Please pay special attention to this setting. Once you have followed through the installer, your plug-ins and presets should be in your chosen locations, and you can hit finish to end the installer application.

At this point, you should be ready to use your Saturate Plug-In.

2.4 Moving or Removing an Activation

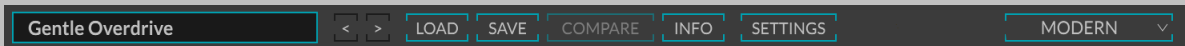
If at any point, you decide to move your plug-in activation, you can do so in iLok license manager. To move an activation between an iLok dongle and your computer, simply plug in the iLok, locate the license in its current location, and drag it to its new location. To deactivate a license, find it in its location, right click on it, and choose deactivate.

Remember that each Saturate Plug-In License comes with two activations, which can be used on either a computer or iLok dongle, meaning you can use Saturate in two locations at the same time.

Chapter 3

Preset Bar

At the very top of the Saturate plug-in is a preset bar which allows you to load and save preset, as well as a couple other features. These are the preset bar sections.



3.1 Preset Selector

On the far left is a drop-down menu which allows you to select preset from a tree structure. These presets are stored in your (Documents)/Eventide/Saturate/Presets folder if you need to access them on your computer.

Next to the preset drop-down menu is a left and right arrow, which allow you to quickly scroll through presets.

3.2 Preset Load and Save Buttons

To the right of the preset selection arrows is a LOAD and SAVE button. LOAD will allow you to load a .tide preset from anywhere on your computer. Save will allow you to save a new preset to anywhere on your computer, however, we suggest that you place it somewhere in the (Documents)/Eventide/Saturate/Presets folder so you can access it from the file dropdown.

3.3 Compare

The COMPARE button will allow you to toggle between the current settings and the last saved or loaded preset. If you have settings that you like, save them as a preset, and as you tweak you can always return to them using the COMPARE button.

3.4 Info

The INFO button will open this manual for you to read about the plug-in.

3.5 Update

If there is a software update available an UPDATE button will appear in the preset bar. Clicking it will bring you to a web page where you can download the new installers.

3.6 SETTINGS

The SETTINGS button pops down a settings page which currently only contains an OPENGL button, but may contain more settings in the future. The OPENGL button allows you to toggle between two different rendering engines. Most people will want to use OPENGL set to on, which will select a rendering engine that uses your computer's onboard GPU to do all graphics rendering for Punctuate. However, some computers do not have a separate GPU processor, or have a GPU that doesn't use the specific OpenGL features used by Punctuate. In these cases, having OPENGL set to "on" may cause graphics errors or an extreme load on your computer's CPU. To turn OpenGL rendering off, set the OPENGL button to "off", close the plug-in window, then open it again. Closing and opening the plug-in windows is necessary because the rendering engine can only be changed when the plug-in window is closed.

3.7 Color Scheme

On the far right is a drop-down labeled COLOR SCHEME. This will allow you to choose one of several different color schemes for your viewing pleasure.

Chapter 4

Parameters and Metering

Saturate has only two main controls, as well as a couple helpful controls. They are all described here.

4.1 Controls

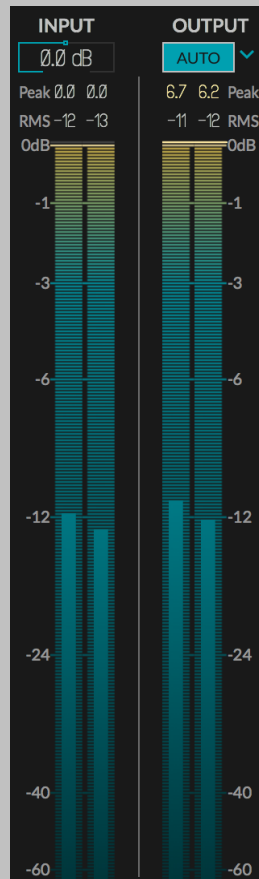
Saturate has several control types, including horizontal sliders, rotary knobs, drop-down menus, and toggle and radio buttons, all of which have tool-tips which will give you more information about their function if you hover your mouse above them.

In general, all sliders and knobs can be double clicked to type in a specific value, option-clicked to return them to their default value, or command-clicked or control-clicked to enter a vernier mode for fine tuning.

Where appropriate, many controls have a related on/off button which will deactivate this control, or even the entire section.

4.2 Global Parameters

4.2.1 INPUT AND OUTPUT LEVEL AND BAR METERS

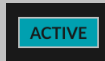


The left and right hand sides of the plug-in have matching vertical bar meters which display the INPUT (on the left) and OUTPUT (on the right) levels in levels in Peak (horizontal ticks), RMS (solid bar and numerical display), and Peak Hold (numerical display) formats. These meters are always present in the display and clicking the Peak Hold section, or bypassing the plug-in will clear the held peak value.

Above the INPUT meter is a knob for the MASTER INPUT LEVEL, and above the OUTPUT meter is an AUTO button which will allow you to automatically compensate for the level change introduced by the DRIVE control, or not. Alternatively, by clicking the down arrow next to this button, you can select a knob to manually set the MASTER OUTPUT LEVEL. The MASTER INPUT LEVEL is just before the INPUT meter and the MASTER OUTPUT LEVEL is just before the OUTPUT meter. With the AUTO button off the DRIVE control will add gain to your input signal. With the AUTO button off the DRIVE control will saturate your input audio without adding any

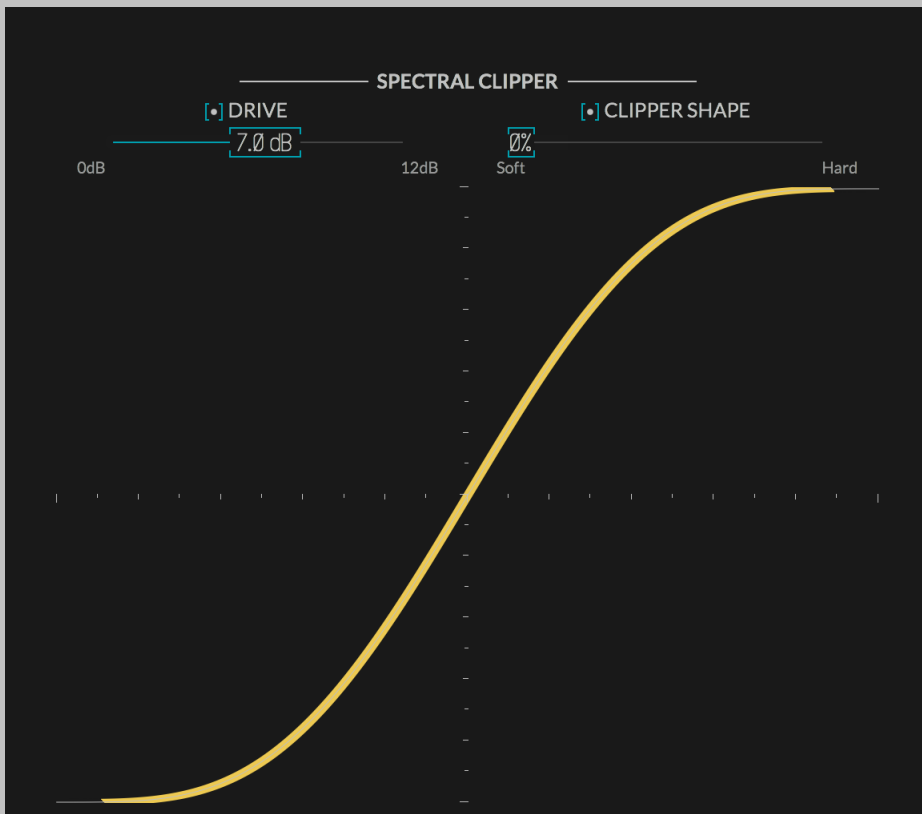
gain by reducing the headroom available to the signal by the DRIVE amount.

4.2.2 ACTIVE



The ACTIVE button is located near the top left of the plug-in UI near the NEWFANGLED AUDIO label in the header. It activates or bypasses all the processing in the plug-in.

4.2.3 SPECTRAL CLIPPER



DRIVE

The DRIVE parameter adds up to 24 dB of gain to the input signal to increase loudness and distortion. The first 12 dB of gain are added according to a gain curve determined by the SHAPE parameter. When

SHAPE is at 0% this curve adds the minimal amount of harmonic content to your signal to create the desired gain, and can be described as the mathematically smoothest or softest curve to achieve the desired gain. As SHAPE is increased past 0%, the distortion curve gets harder meaning more harmonics are added, but quieter sounds are less effected by the curve. DRIVE levels above 12 dB simply overdrive this curve further for additional distortion.

SHAPE

The SHAPE parameter changes the shape of the gain curve from soft to hard. This clipper uses an ideal set of shapes which allow for maximum boost with minimal added harmonic content. When DRIVE is 0 dB no gain is being provided and the soft and hard SHAPES are exactly the same.

GAIN CURVE DISPLAY

The GAIN CURVE DISPLAY sits below the DRIVE and SHAPE parameters and shows there effect on the gain curve. This GAIN CURVE is the mapping of input signals on the x-axis to output signals on the y-axis. As the DRIVE is turned up the GAIN CURVE gets steeper in the center to show the applied gain. As the SHAPE parameter moves from SOFT to HARD the shape of the GAIN CURVE changes to describe the resulting curve. The real-time values of input and output are also mapped to the GAIN CURVE DISPLAY to show you how hard you're hitting the distortion algorithm. You can adjust how hard you're hitting the algorithm with the INPUT LEVEL control.

Chapter 5

Conclusion

We hope you enjoy Newfangled Audio's Saturate Spectral Clipper plugin. If you have any questions, comments, or concerns please write us at support@newfangledaudio.com

Chapter 6

About Newfangled Audio

The Oxford English Dictionary defines Newfangled as “objectionably new”.

Music technology can sometimes be a backward looking pursuit. This is understandable, the purpose of music technology should be to help musicians make great music. There have been many great pieces of gear in the past and we should seek to keep these pieces and make them available to people who want to use them, and the time and dedication required to master a musical instrument means that changes in their design are often evolutionary rather than revolutionary.

However, the great pieces of gear from yesteryear are more often than not those that contained new ideas in their time. The reverence we have for these pieces can sometimes turn into fetishism, and mindless re-creation of classic gear can fail to inspire musicians and artists to take new risks. It’s important to make sure artists and engineers have access to good tools that inspire them and don’t stand in their way, but these tools should never be used as a security blanket to stand in the way of an artist or engineers ears and taste.

Newfangled Audio seeks to only make gear that incorporates new ideas. We want to make gear that is great, but only using ideas that others are not. We realize that deviation from the norm might sometimes be objectionable. The Oxford English Dictionary defines Newfangled as “objectionably new”.