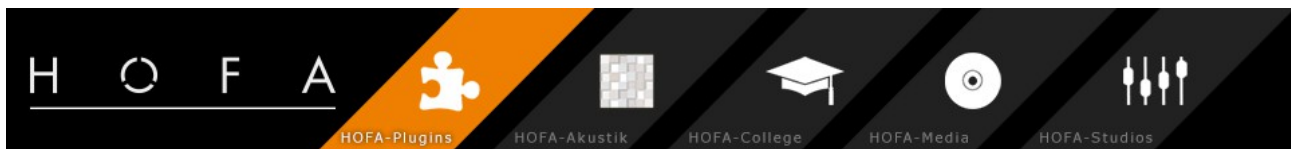


Manual

HOFA 4U+ DynamicTiltEQ

V1.0



Introduction

A tilt EQ can be used to control the spectral balance of an instrument or a whole recording. It generally boosts above a set frequency and attenuates below (for positive tilt gain values) or vice versa (for negative tilt gain values).

Besides the tilt gain, HOFA 4U+ DynamicTiltEQ also allows to control the tilt width. This is the range where the gain raises or falls proportionally with the frequency before reaching the set maximum gain.

A large width will thus allow to change the tonal balance in a very naturally sounding way. A small width on the other hand is useful for more drastic changes.

Especially in the full version, HOFA 4U+ DynamicTiltEQ offers a wide functionality with unprecedented features – a glance in the manual might prove useful:-)

Nonetheless, it is a simple, self-explaining sound shaper – so just install, start to work and enjoy the good sound!

Installation

In order to install HOFA 4U+ DynamicTiltEQ you will need the HOFA-Plugins Manager which you can download here:

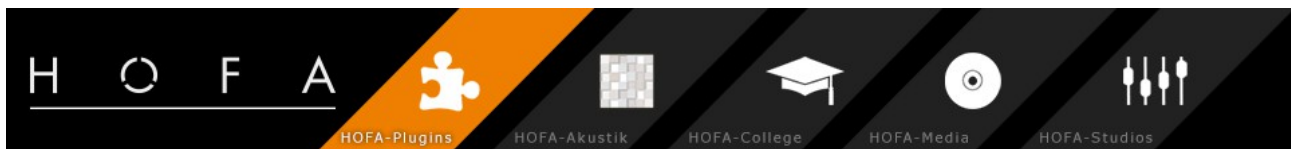
<https://hofa-plugins.de/en/downloads>

The HOFA-Plugins Manager also allows installing all further products by HOFA-Plugins which you can test for 14 days if you are interested.

Select "Install" in the field "HOFA 4U+ DynamicTiltEQ". You also have to select the plugin format that you want to install at the bottom of the window. The plugin is available in VST, VST3, AU (Mac only) and Pro Tools (RTAS & AAX) format.

By clicking "INSTALL" or "APPLY CHANGES", the latest version of the software will be downloaded and installed on your computer.

HOFA 4U+ DynamicTiltEQ is freeware that also offers extended features when licensed. You can test the additional features during a 14-day demo period. This period can be started from HOFA-Plugins Manager using the "Start Demo" button.



Activation

Activation is only needed to use the extended features. The plugin will automatically work with the free features after it has been installed.

The activation of the plugin is done with the HOFA-Plugins Manager, which is also used for the installation.

A detailed description of the activation and deactivation process is available here:

http://hofa-plugins.de/media/HOFA_Plugins/manuals/Activation-Deactivation_en.pdf

Quick Start

After loading 4U+ DynamicTiltEQ into an insert you can change the tilt frequency, tilt width and tilt gain in the plugin's upper area to adjust the tilt EQ.

To process the upper and lower frequency range differently simply open the lock above the frequency handle.

When using a licensed 4U+ DynamicTiltEQ it is also possible to apply dynamics to the processing. This can be enabled in the lower area where also the typical dynamics controls threshold, ratio, attack and release are available.

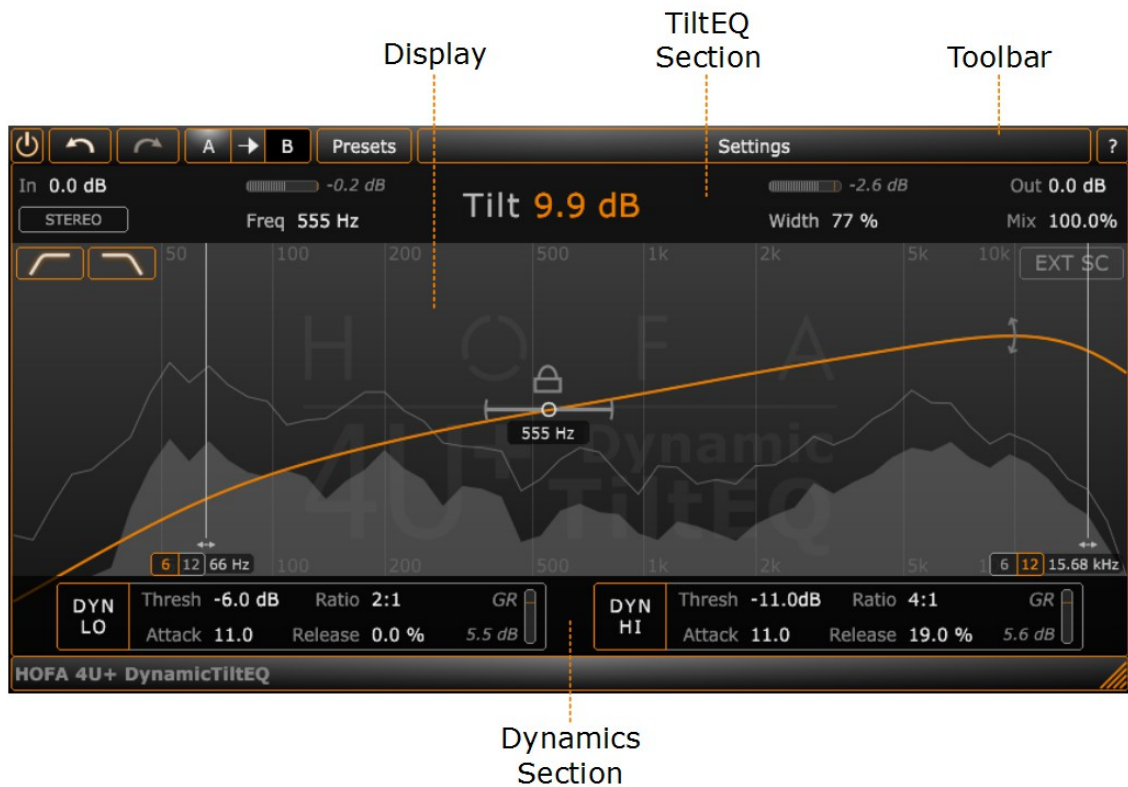
Freeware Features

4U+ DynamicTiltEQ is a freeware plugin with additional features which can be used after an upgrade has been purchased.

The upgrade will add the dynamics and the analyzer. All other features are also available without an upgrade license.

The tilt EQ including low-cut and high-cut are also available in the freeware without restrictions.

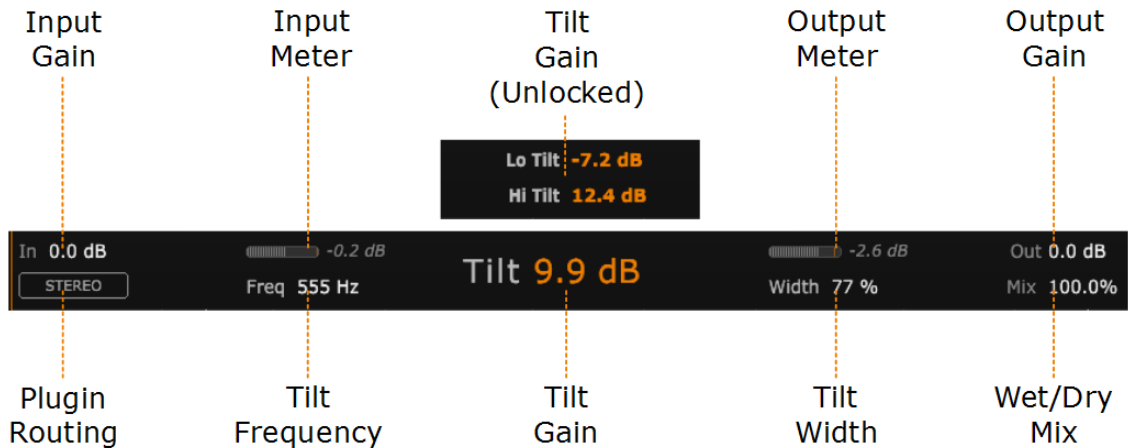
Controls



Besides the toolbar at the top, 4U+ DynamicTiltEQ consists of three different sections. The tilt EQ section contains controls to set the tilt EQ and input/output gains and options. The display section also has handles for these controls and additionally features a low-cut and high-cut filter.

Furthermore, the upper and lower tilt sections can be processed dynamically which is controlled in the dynamics section.

Tilt EQ Section



Input and Output Gain allow to adjust the internal plugin level. The resulting levels can be monitored using the input and output meters. Clicking on the meters will reset the meter's peak level. Use Ctrl-Click to reset all plugin meters at once.

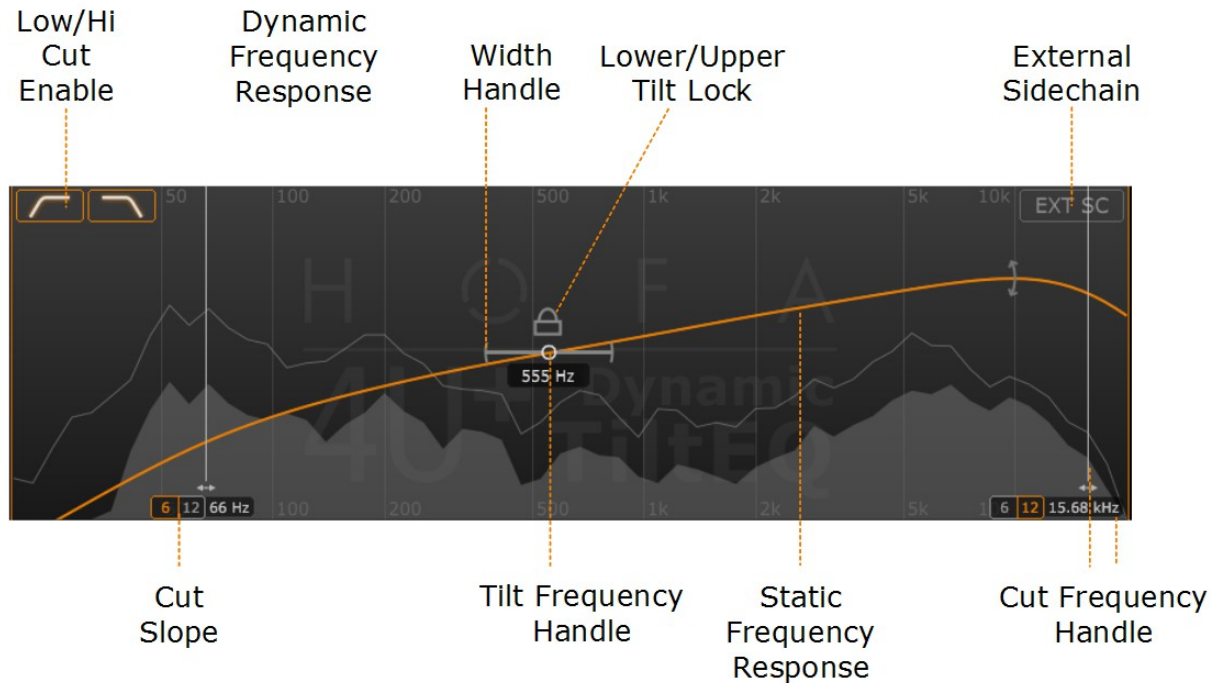
Tilt frequency, tilt gain and tilt width are the tilt EQ's parameters. *Tilt gain* sets the amount of gain used, *tilt frequency* the frequency at which the tilt occurs and *tilt width* the tilt's slope. It is possible to unlock the tilt gain to apply a different tilt for the upper and lower frequency range. The unlocking is done using the lock button in the display section.

The Wet/Dry Mix control allows parallel processing. This is especially useful for dynamic processing.

The Plugin Routing selector allows to apply the processing only to the mid, side, left or right channel. The routing applies to the whole processing including Wet/Dry Mix and Output Gain.

In mono instances, Routing isn't available.

Display Section

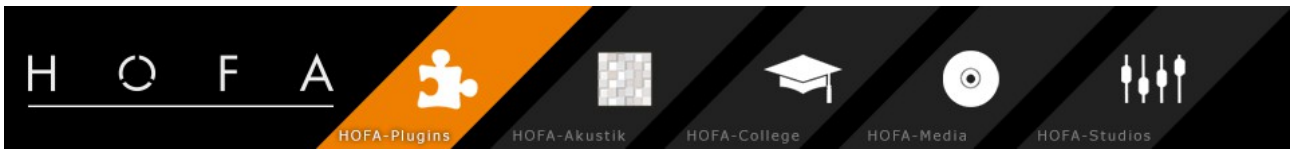


All tilt EQ parameters can also be controlled from within the display. The tilt lock button additionally allows to unlock the upper and lower tilt gain so both gains can be used independently.

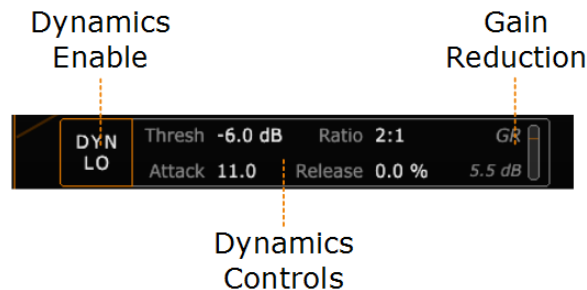
It is possible to adjust the tilt gain by dragging the static frequency response curve.

A low-cut and high-cut filter can be activated using the according buttons. The filters can be switched between 6 and 12 dB/octave and their frequencies can be adjusted using the vertical frequency handles. It is also possible to enter a frequency manually by clicking the frequency number below the handle.

If an external sidechain is available it can be used to trigger the dynamics.



Dynamics Section



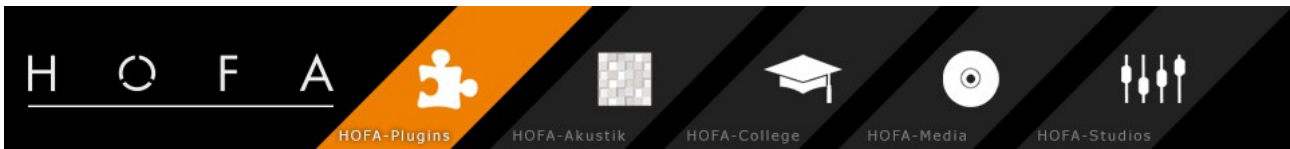
There are two identical dynamics sections for the lower and upper frequency range. Each consists of an Enable button and typical controls for dynamics:

Threshold sets the level below which the dynamics processing will be applied.

Ratio determines the amount of gain reduction in relation to the current level over the threshold. For example a gain reduction of "3:1" means that an input which is three dB above the threshold level will lead to an output which is 1 dB above the threshold level. Besides compression the ratio can also be set to expansion where the gain reduction is applied inversely to increase the output level. It can be changed via mouse drag, mouse wheel or entering ratios as text (e.g. "2:1" / "2" or "1:2" / "-2").

The Attack time is a measure for how long the dynamics need to reach the full gain reduction. Short attack times (together with short release times) can lead to distortion. In all oversampling modes except "Live", the minimum attack time is "Ahead", a look ahead mode. As the dynamic behaviour is highly adaptive, the value doesn't reflect an exact time in ms but a range between 0.1 and 50. The actual attack time depends on the current program and can vary between a few and several hundred ms. When using "Ahead", the gain reduction begins *before* the triggering peak occurs.

The Release time describes the time which the dynamics stage needs to reduce its gain reduction after the input level has decreased. Because of the adaptive dynamic behaviour, the release time is set in percent where 0 is fast and 100 is very slow.



Toolbar



When disabled, the plugin is bypassed. Depending on the plugin format and host, this control is linked to the host's plugin bypass button.



These buttons allow to undo and redo the last actions.



4U+ DynamicTiltEQ provides two states ("A" and "B") to quickly compare different plugin settings. Each state uses its own undo/redo list. Clicking the arrow copies the active state to the inactive state and switches to the latter one.



Opens the [preset menu](#).



The Settings menu allows to customize the plugin's appearance and contains settings which are only needed to be set occasionally. A detailed description is available in the [Settings Menu](#) section.



The help menu has entries to open the manual, toggle tooltips and check online for available updates.

Preset Menu



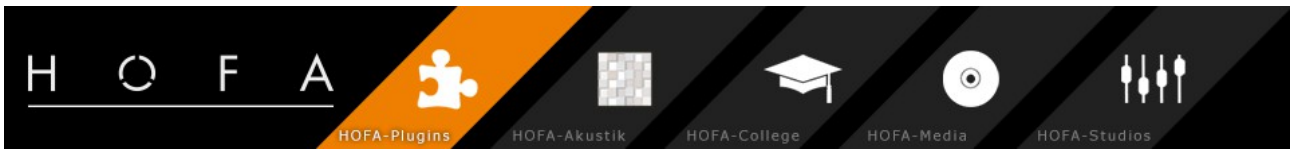
The "HOFA" factory presets show different use cases of 4U+ DynamicTiltEQ and can be used as starting point for various applications.



It is also possible to create new presets which are available via the "User Presets" sub menu. The "User Presets" sub menu is only visible if user presets have been created.

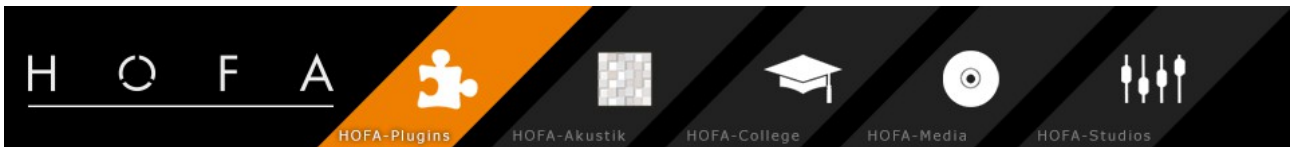


Adds a preset to the "User" menu.



Settings Menu

Default Settings ▶	Set as Default Reset to Default	Saves and restores the default settings. This includes the parameters but also the plugin size. New plugin instances are initialized with these settings.
✓ Show Analyzer Curve		Process and show analyzer live spectrum. Not available in the free version.
✓ Show Analyzer Hold		Show analyzer peak hold curve. The peak hold curve is only shown if the spectrum analyzer is active.
✓ Auto Clear Peak Hold		Reset the gain reduction and input peak hold when a parameter is changed.
Out-Gain Applies to Selected Routing		If activated, only the selected routing (stereo, mid, side, left, right) will have the output gain applied. Otherwise the output gain will be applied to the stereo signal.
Oversampling (Online) ▶	Live ✓ 2x (88.2 kHz) 4x (176.4 kHz) 8x (352.8 kHz) 16x (705.6 kHz) 32x (1.411 MHz) 64x (2.822 MHz)	Online oversampling setting. 4U+ DynamicTiltEQ internally works with at least 88.2 kHz. In live mode, the plugin has no latency, but the look-ahead for the dynamics section is disabled.



Oversampling (Offline) ▶

- Live
- ✓ 2x (88.2 kHz)
- 4x (176.4 kHz)
- 8x (352.8 kHz)
- 16x (705.6 kHz)
- 32x (1.411 MHz)
- 64x (2.822 MHz)

If the DAW notifies the plugin about an offline rendering, this setting is used. This way, rendering can be done with higher quality settings. The offline oversampling is at least as high as the online oversampling.

Help Menu

Open Manual

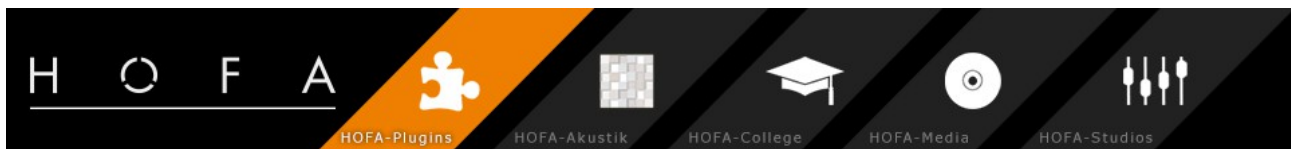
Opens (this) manual.

✓ Show Tooltips

Show tooltips when hovering above a plugin element.

Check for Updates

Check online whether updates are available.



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