Voxengo TEQ-421 User Guide

Version 1.2

https://www.voxengo.com/product/teq421/

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Introduction

TEQ-421 is freeware equalizer plug-in for professional music production applications. This equalizer features only three bands (Triple EQ), finely tuned to deliver good results in many cases, thus being extremely easy to use. Beside that, the plug-in features internal non-parametric harmonic coloration modules (derived from HarmoniEQ plug-in) which produce a smooth saturation and a "presence" effect.

The frequencies of the bands were carefully selected and are not adjustable. These frequencies target specific spectral areas that affect sound's perception the most. The best use-case for this plug-in is equalization of unprocessed acoustical recordings that usually lack in modern balance of low, mid, and high frequencies.

The plug-in is equally useful on individual tracks, groups, and master bus. It was designed by tuning to a set of various sound sources, including vocals, acoustic guitars, drums, basses, and full mixes.

Features

- Easy-to-use design
- Smooth harmonic coloration
- 64-bit floating point processing
- Preset manager
- Undo/redo history
- A/B comparisons
- Contextual hint messages
- All sample rates support
- Zero processing latency

Compatibility

This audio plug-in can be loaded into any audio host application that conforms to the AAX, AudioUnit, VST, or VST3 plug-in specification.

This plug-in is compatible with Windows (32- and 64-bit Windows XP, Vista, 7, 8, 10 and later versions, if not announced otherwise) and macOS (10.11 and later versions, if not announced otherwise, 64-bit Intel and Apple Silicon processor-based) computers (2.5 GHz dual-core or faster processor with at least 4 GB of system RAM required). A separate binary distribution file is available for each target computer platform and audio plug-in specification.

User Interface Elements

Note: All Voxengo plug-ins feature a highly consistent user interface. Most interface elements (buttons, labels) located at the top of the user interface are the same in all Voxengo plug-ins. For an in-depth description of these and other standard features, and user interface elements, please refer to the "Voxengo Primary User Guide".

EQ

This panel presents three knobs that adjust lower, middle, and higher frequencies. The gain adjustment range was made asymmetric since EQ cuts with this plug-in do not sound particularly well. Each band applies automatic makeup gain adjustment, in many cases making any output gain changes unnecessary.

Out

The "Out Gain" knob adjusts output signal's loudness. Note that this is in fact plug-in's "Pre Gain" control, so you can use the "Out Gain" to push the sound into a stronger coloration, or subtly control the sound of coloration.

This panel also displays the output signal level in decibel. "OL" indicator reacts on signal levels above 0 dBFS.

Credits

DSP algorithms, internal signal routing code, user interface layout by Aleksey Vaneev.

Graphics user interface code by Vladimir Stolypko. Graphics elements by Vladimir Stolypko and Scott Kane.

This plug-in is implemented in multi-platform C++ code form and uses "zlib" compression library (written by Jean-loup Gailly and Mark Adler), "LZ4" compression library by Yann Collet, "base64" code by Jouni Malinen, FFT algorithm by Takuya Ooura, filter design equations by Robert Bristow-Johnson, VST plug-in technology by Steinberg, AudioUnit plug-in SDK by Apple, Inc., AAX plug-in SDK by Avid Technology, Inc., Intel IPP and run-time library by Intel Corporation (used under the corresponding licenses granted by these parties).

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