

DMAX

v. 1.0

User Manual

www.dmaxaudio.com

DMAX

Is a new-type peak limiter which does not use gain reduction. Can be used either for processing of a complex signal or separate drums or percussions tracks. Supports sampling rates up to 96kHz.

SYSTEM REQUIREMENTS

- PC: Windows XP/Vista/7
VST-compatible host
- MAC: MAC OSX version 10.4 or later.
VST-compatible host.

INSTALLATION

- PC: Unzip the archived file into the root directory of your computer.
You will get “\DMAX Audio\” folder. Files for 32-bit OS version are in the “WIN” sub-folder, and the files for the 64-bit OS version are in the WIN\x64\ folder.
Depending on your OS architecture find there DEQA.dll and copy it into your plug-in folder.
Usually the plug-in folder you can find in “\Program Files\Steinberg\Vst Plugin\”.
Update the plug-in information of your host.
- MAC: Open zip file. Go to the MAC sub-folder. Copy DEQA.vst into the folder
“Library\Audio\Plug-Ins\VST\”.
Update the plug-in information of your host.

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DMAX - is entirely new-type peak limiter. It does not use gain reduction, therefore it maximally retains the stereo imaging and transients of the signal. During heavy limiting it may change tonal balance (amplitude-frequency curve) and distort signal. DMAX can be used either separately or together with the "classic"-type limiter. It is not suitable for separate limiting of harmonic instruments and vocal tracks. DMAX will work best for limiting drums/percussions tracks or with mix which contains drums or percussions.

THRESHOLD FADER



Is intended for setting up the threshold of limiting.

Fader moves by steps of 0.1dB in the range of 0/-12dB.

The volume autocompensation in the plug-in is on by default, so with the increase of limiting threshold the volume of the signal will increase, too. This function can be switched off with the "GAIN OFF" button.

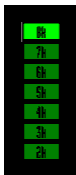
KEYBOARD DATA INPUT



Under each fader there is an indicator window which displays digital value of the fader.

You can input it manually from the keyboard. To do this click in the indicator window.

If the typed value exceeds the permissible range, the previous value will remain.



THRESHOLD FREQUENCY BUTTONS

Are intended to choose the threshold frequency.

Threshold frequency is a frequency above which the limiter does not process the signal. Depending on limiting threshold frequency and depth of limiting it may reduce the low frequencies of the signal.

The lower the frequency threshold, the more evident will be the reduction of the lows. You can choose the threshold frequencies in accordance with the type of music.

“FAST” BUTTON



Is intended to process the signal in simplified calculation mode.

As DMAX algorithm requires very extensive calculations, its use in multi-channel audio editors together with other plug-ins may lead to specific distortions up to the full playback termination.

It means that your computer has not enough computation capability for online work.

To continue just press “FAST” button. In this case the algorithm will work in the simplified calculation mode, so you will be able to work online. Please be aware that this mode is intended just for online preview only, and not intended for final rendering. *For final rendering please switch this mode off.*

CEILING FADER



It sets the maximal amplitude of the processed signal.

Fader moves by steps of 0.1dB in the range of 0/-3dB.

You can use ceiling function for encoding into mp3 or other data-compressing formats, in which the maximal amplitude of the signal may increase after decoding.

D16/D24 DITHERING BUTTONS



Are intended for selection of 16-bit and 24-bit dithering accordingly.

You can use dithering if you plan to change the bitrate of the signal.

Dithering adds low-volume noise of certain spectrum to the signal.

It allows to reduce quantization error and get "softer" sound.

GAIN OFF BUTTON



Is intended for switching off of volume autocompensation .

You can use this function for comparison of the processed and initial signals, or in cases where amplification of the signal will be done later.

When autocompensation is switched on the volume will rise gradually within 1 second for safety purposes.

BYPASS



Is intended to switch the limiter off. As the algorithm of the limiter uses the internal signal delay, it is better to use the bypass of the plug-in than that of the host to avoid possible clicks and other artifacts.

ATTENTION! If volume autocompensation is not switched off, instant signal boost may damage your audio equipment and hearing. Before switching the bypass on ALWAYS SWITCH VOLUME AUTOCOMPENSATION OFF!

INFORMATION INDICATOR



This color of the indicator shows that you are using the demo version of the plug-in.

ATTENTION! The demo version of the plug-in each minute makes a second –long silence gap.

Please note that the demo version of the plug-in BY NO MEANS can be converted into the commercial one.

When you purchase it you get another file.



This color of the indicator shows that you are using the commercial version of the plug-in.

If clicked, it opens a window with your personal information you submitted in the purchase procedure.