DLIM

v. 1.0

USER MANUAL

DLIM

is a loudness maximizer, based on superfast gain reduction (limiting). May be used for mastering or mixing purposes for increasing of the subjective loudness without changing of the maximal amplitude. Supports sample rates up to 192kHz.

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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THRESHOLD FADER

Is intended for setting up the limiting threshold.
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.
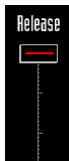
KEYBOARD DATA INPUT

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.

RELEASE FADER

Is intended for setting up the limiter response speed.
Fader moves by steps of 1 unit in the range of 1-40.
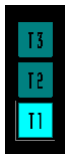The limiter response speed is calibrated in relative units.
1 – the fastest. It maximally keeps dynamics and loudness of drums and percussions,
but also maximally distorts the signal.
40 - the slowest speed. Yields the minimal distortion levels but it may change "punch" of the drum sound.
Release value depends on the nature of music.
Quicker response is preferable for hard & heavy styles, slower one – for soft & ambient.

LIMITER MODE BUTTONS

Are intended for switching between modes of the limiter
T1 – "classical" mode. The limiter distorts only the low-frequency band.
T2 – this mode redistributes the distortions into the middle-frequency band.
T3 – this mode redistributes the distortions into the high-frequency band.
Different modes of the limiter yield different sound result. T2 and T3 introduce more noticeable distortions, but
they also preserve more original low frequencies in the mix, especially in heavy limiting.
The choice of the limiter mode, like "Release" parameter, also depends on the nature of music.
T1 and T2 are preferable for "hard&heavy" styles. T1 is better for softer styles.

STEREOLINK BUTTON

Is intended for switching on/off of the co-processing of the channels. If the LINK button is switched off,
left and right channels are processed independently. When the LINK button is switched on,
left and right channels are co-processed. This function modifies the stereo imaging of the mix.

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 BUTTON

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!*

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 loss 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.

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 the license 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 during the purchase procedure.