

# Complexer 2

v2.0.2



Complexer 2 is a multi-stage dynamics processor, featuring three independently controlled dynamics processors, each with a choice of six different modes. Each of the three processors can be configured as an upward or downward compressor, an upward or downward expander, a limiter, or a gate. Complexer 2 offers four different arrangements for processing: serial/parallel chaining, stereo, mid/side, and multiband. Complexer 2 is a dynamics powerhouse, letting you take complete control of your track.

## venomode

# Installing Complexer 2

To install Complexer 2 on Mac or Windows, simply run the installer and follow the instructions. Once installed, Complexer 2 will be ready to use the next time you open your DAW.

To install the plugin on Linux, simply extract the files and run the install.sh script. In your Terminal app, run the following commands:

```
cd ~/Downloads Change to your Downloads folder
mkdir tempinstaller Create a temporary folder to extract to
tar -C tempinstaller -zxvf PLUGIN.tar.gz Extract the bundle
bash tempinstaller/install.sh Run the installer script
rm -R tempinstaller/ Clean up the temp folder
```

Complexer 2 requires the following system specifications:

## Windows

- Windows 7/8/10
- 32/64-bit VST/VST3 Compatible DAW

## Mac OSX

- OSX 10.7+
- 64-bit VST/VST3/AU Compatible DAW

## Ubuntu

- 18.04+
- 64-bit VST Compatible DAW

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## Registering Complexer 2

The plugin will run in demo mode until a licence is entered and the software is restarted. In demo mode the plugin will not recall the state from a saved track, it will timeout after 30 minutes, and the saving of presets is unavailable. After you have purchased a licence, you will need to register the plugin, which will unlock the full, unrestricted version of the software. Any tracks you have saved with the demo version will now recall correctly.

Click the padlock icon in the top bar area of the plugin window. A window will display where you can enter your licence from the Venomode website user area. After you have entered your licence, the full version will unlock the next time you open your DAW. Ensure your licence exactly matches what is shown in the website. For convenience, you can click your licence in the website to copy it to your clipboard, and then paste it into the plugin. Your licence is the long string of text containing your name, email, and unique code, separated by three colons (:::).

# Using Complexer 2



## 1. Flow Section

The flow section is where you can configure the way the 3 dynamics modules are processed. Each of the 3 processors will be shown here, with the type of processor shown in the centre. If a module has a colour, then it is enabled, and when it is grey, it is disabled. You can toggle the enablement by either right-clicking, or double-clicking. Each module can be drag-and-dropped into your preferred position. The currently selected module will be shown with a white outline and white text.

The 4 buttons at the bottom of the section allow you to choose from the different processing modes:

Chain - In chain mode, you can select from an array of different serial and parallel processing flows. The signal flows from left to right, optionally splitting in the middle.

Mid/Side - In this mode, you can select a different processor for the mid channel, the side channel, and the stereo signal. You can choose whether the signal processes the M/S before or after the stereo channel.

Stereo - In stereo mode, you can apply a different processor to the left channel, right channel, and stereo signal. You can choose whether the signal processes the L/R before or after the stereo channel.

Multiband - In multiband mode, each of the processors is split into its own adjustable frequency band. The crossover frequency of each band can be adjusted using the 2 sliders.

## 2. Processor Controls

The processor controls allow you to adjust the currently selected module.

Enabled - Whether the module is enabled or not.

Mode - Select from 6 different processors: Upward compressor, Downward compressor, Gate, Limiter, Upward expander, and Downward expander

Detection - Choose from either Peak, RMS, or Average detection modes. Peak mode uses the peak signal to control the dynamics, and is perfect for use in limiting. The RMS mode uses the root-mean-squared of the signal, and is generally smoother than Peak. It is often used with compressors to get a smoother sound. Average is similar to RMS, but it uses a faster, albeit less accurate, algorithm.

Style - You can select either Digital mode, which features a fast and clean detection, or Analog, which uses a slower detection algorithm.

Sidechain - Here you can enable whether to use an external sidechain or not. When enabled, the signal coming in via an external sidechain channel is used as the detector. This is often used to make space when another track is playing, for example the kick is often used as a sidechain signal in EDM.

RMS Window - When the detector is either in RMS or Average mode, you can adjust the size of the window here. Shorter values behave like a peak detector, and longer values create a more even response.

Dry Signal - You can mix back in some of the dry signal using this slider

In Gain - Apply a boost or cut to the signal before running through the processor

Sidechain Gain - Apply a boost or cut to the sidechain signal before running through the processor

Threshold - The level at which the processor kicks in

Ratio - Here you select how much the processor affects the gain above the threshold

Knee - An adjustable knee allows you to smooth off the area around the threshold

Lookahead - With lookahead, the processor looks ahead in time to see what is coming up. This is useful as it can see peaks before they happen and respond accordingly

Attack - How fast the change in gain is applied

Hold - How long the gain reduction stays after the signal drops below the threshold

Release - How long it takes for the gain reduction to reduce back to normal after the signal drops back below the threshold

Out Gain - Apply a boost or cut after the signal has run through the processor

### 3. Processor graph

The graph shows the current reduction curve applied to the signal. The level meters to the left show the incoming audio signal, and the level meters on the right show the signal after it has been processed. The dot on the graph shows the incoming signal's position on the curve. The single, orange bar shows the level of attenuation. Each of the meters and graph share the value markers, which are shown in -dB.

### 4. Output Section

The level meters here show the overall input and output levels for the plugin as a whole. You can adjust the final gain applied using the Output slider.

When the Limit button is active, a final limiter is applied to the signal, with a threshold of 0dB. This will stop any overly loud signals coming through, for example if the mode is switched or the order of processes is changed .

### 5. Top Bar

The top bar is where you can manage the plugin. The middle section shows the currently selected preset, and if you open this list you can choose from all the factory and user presets. Clicking on the left and right arrow icons manually cycles to the previous or next preset. The save icon will open a window where you can save the current state of the plugin as a custom preset. Enter your preset name in this window and click save.

You can view this manual at any time by clicking the question mark button.

The cog icon will open the registration window. Enter your name, email and serial number exactly as shown in your confirmation email and click "Register", or copy the keyfile to your clipboard from the user area of the Venomode website and click "Paste Keyfile". See the registering Complexer 2 section for more info.

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