

MTransientMB



Easy screen vs. Edit screen

The plugin provides 2 user interfaces - an **easy screen** and an **edit screen**. Use the Edit button to switch between the two.

By default most plugins open on the **easy screen** (edit button released). This screen is a simplified view of the plugin which provides just a few controls. On the left hand side of the plugin you can see the list of available **devices / instruments** (previously called 'active presets'), that is, presets with controls. These controls are actually nothing more than multiparameters (single knobs that can control one or more of the plug-in's parameters and sometimes known as Macro controls in other plug-ins) and are described in more detail later. Each device may provide different controls and usually is intended for a specific purpose. The easy screen is designed for you to be able to perform common tasks, quickly and easily, without the need to use the advanced settings (that is, those available on the Edit screen).

In most cases the devices are highlighted using different text colors. In some cases the colors only mark different types of processing, but in most cases the general rule is that **black/white devices** are the essential ones designed for general use. **Green devices** are designed for a specific task or audio materials, e.g. de-essing or processing vocals in a compressor plugin. **Red devices** usually provide some very special processing or some extreme or creative settings. In a distortion plugin, for example, these may produce an extremely distorted output. **Blue devices** require an additional input, a side-chain or MIDI input usually. Without these additional inputs these **Blue** presets usually do not function as intended. Please check your host's documentation about routing side-chain and MIDI into an effect plugin.

To the right of the controls are the meters or time-graphs for the plugin; the standard plugin Toolbar may be to the right of these or at the bottom of the plugin.

By clicking the **Edit button** you can switch the plugin to **edit mode** (edit button pushed). This mode provides all the of the features that the plugin offers. You lose no settings by toggling between edit mode and the easy screen unless you actually change something. This way you can easily check what is "under the hood" for each device, or start with an device and then tweak the plugin settings further.

Devices are factory specified and cannot be modified directly by users, however you can still make your own and store them as normal presets. To do so, configure the plugin as desired, then define each multiparameter and specify its name in its settings. You can then switch to the easy screen and check the user interface that you have created. Once you are satisfied with it, save it as a normal preset while you are on the easy screen. Although your preset will not be displayed or selected in the list of available devices, the functionality will be exactly the same. For more information about multiparameters and devices please check the **online video tutorials**.

If you are an advanced designer, you can also view both the easy and edit screens at the same time. To do that, hold **Ctrl** key and press the Edit button.

Edit mode



Presets

Presets

Presets button shows a window with all available presets. A preset can be loaded from the preset window by double-clicking on it, selecting via the buttons or by using your keyboard. You can also manage the directory structure, store new presets, replace existing ones etc. Presets are global, so a preset saved from one project, can easily be used in another. The arrow buttons next to the preset button can be used to switch between presets easily.

Holding **Ctrl** while pressing the button loads a random preset. There must be some presets for this feature to work of course.

Presets can be backed up by 3 different methods:

- A) Using "Backup" and "Restore" buttons in each preset window, which produces a single archive of all presets on the computer.
- B) Using "Export/Import" buttons, which export a single folder of presets for one plugin.
- C) By saving the actual preset files, which are found in the following directories (not recommended):

Windows: C:\Users\{username}\AppData\Roaming\MeldaProduction

Mac OS X: /Library/Application support/MeldaProduction

Files are named based on the name of the plugin like this: "{pluginname}.presets", so for example MAutopan.presets or MDynamics.presets. If the directory cannot be found on your computer for some reason, you can just search for the particular file.

Please note that prior to version 16 a different format was used and the naming was "{pluginname}presets.xml". *The plugin also supports an online preset exchange. If the computer is connected to the internet, the plugin connects to our server once a week, submits your presets and downloads new ones if available. This feature is manually maintained in order to remove generally unusable presets, so it may take some time before any submitted presets become available. This feature relies on each user so we strongly advise that any submitted presets be named and organised in the same way as the factory presets, otherwise they will be removed.*



Left arrow

Left arrow button loads the previous preset.



Right arrow

Right arrow button loads the next preset.



Randomize

Randomize button loads a random preset.



Panic

Panic button resets the plugin state. You can use it to force the plugin to report latency to the host again and to avoid any audio problems. For example, some plugins, having a look-ahead feature, report the size of the look-ahead delay as latency, but it is inconvenient to do that every time the look-ahead changes as it usually causes the playback to stop. After you tweak the latency to the correct value, just click this button to sync the track in time with the others, minimizing phasing artifacts caused by the look-ahead delay mixing with undelayed audio signals in your host. It may also be necessary to restart playback in your host.

Another example is if some malfunctioning plugin generates extremely high values for the input of this plugin. A potential filter may start generating very high values as well and as a result the playback will stop. You can just click this button to reset the plugin and the playback will start again.

Settings

Settings button shows a menu with additional settings of the plugin. Here is a brief description of the separate items.

Licence manager lets you activate/deactivate the plugins and manage subscriptions. While you can simply drag & drop a licence file onto the plugin, in some cases there may be a faster way. For instance, you can enter your user account name and password and the plugin will do all the activating for you.

There are 4 groups of settings, each section has its own detailed help information: **GUI & Style** enables you to pick the GUI style for the plug-in and the main colours used for the background, the title bars of the windows and panels, the text and graphs area and the highlighting (used for enabled buttons, sliders, knobs etc).

Advanced settings configures several processing options for the plug-in.

Global system settings contains some settings for all MeldaProduction plugins. Once you change any of them, restart your DAW if needed, and it will affect all MeldaProduction plugins.

Dry/Wet affects determines, for Multiband plug-ins, which multiband parameters are affected by the Global dry/wet control.

Smart interpolation adjusts the interpolation algorithm used when changing parameter values; the higher the setting the higher the audio quality and the lower the chance of zippering noise, but more CPU will be used.



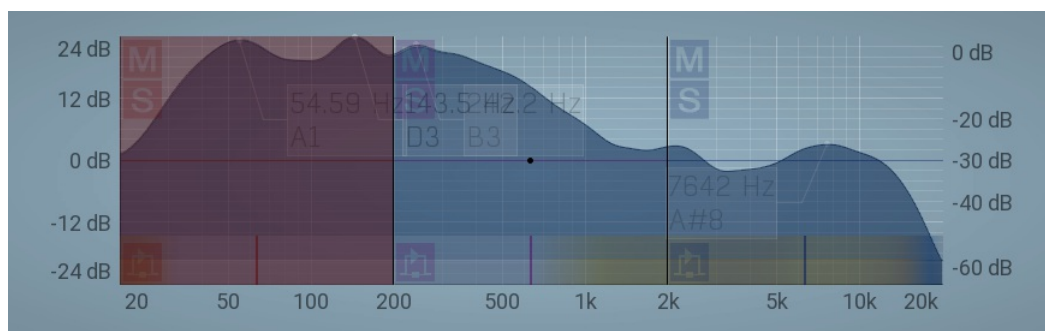
WWW

WWW button shows a menu with additional information about the plugin. You can check for updates, get easy access to support, MeldaProduction web page, video tutorials, Facebook/Twitter/YouTube channels and more.

Sleeping

Sleep indicator

Sleep indicator informs whether the plugin is currently active or in sleep mode. The plugin can automatically switch itself off to save CPU, when there is no input signal and the plugin knows it cannot produce any signal on its own and it generally makes sense. You can disable this in Settings / **Intelligent sleep on silence** both for individual instances and globally for all plugins on the system.



Band editor

Band editor displays the available frequency bands, the crossover frequencies delimiting them, and the input gains and panoramic positions.

Use the left mouse button to drag the band boundaries (the vertical lines between bands), the band itself (the central dot in each band) and the input gains (the horizontal bars in each band). The short vertical bars in the bottom of each band control the input panoramic positions (when L+R Channel Mode is selected) or the input Widths (when M+S Channel Mode is selected).

Use the right mouse button to open the **Band Configuration** window where you can manage the bands and crossover filters and the appearance of the analyzer waveforms in the band editor.

Buttons to the left-hand side of each band let you mute, solo and bypass the processing in each band. Please note that the **Mute** and **Solo** buttons act on the output for each band, that is after the actual band processing.

The Collapse button to the right of the Band Editor minimises the editor, releasing space for other editors in the plug-in.

Band menu

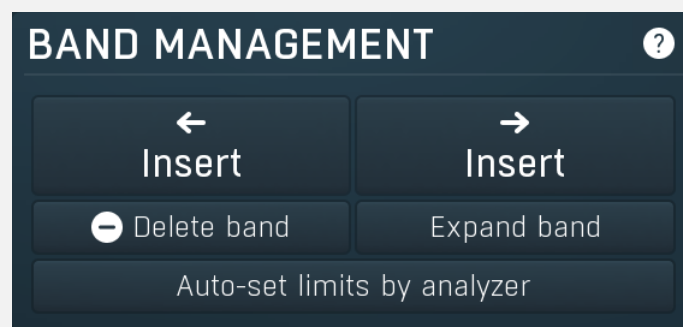


Band menu provides features to control the set of bands and copy & paste band settings (**Band management** section), reset band input gain & panorama (**Band gain & panorama** section), and to select and customize the crossover (**Crossover** section) and analyzer options.

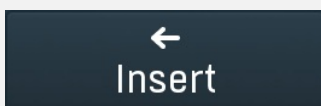
You can display this menu by **right-clicking** on the band editor.

One of the essential things to control in the band menu is the number of bands. The plugin can either operate as a single bundle plugin. In this case there is no crossover employed of any kind and the first and only band receives all MIDI data if the plugin makes use of it somehow. If there are 2 or more bands however, the plugin somehow produces signals for each band using the crossover, based on the spectrum or level for example, and there's a change in MIDI behaviour as well - 1st band receives only MIDI channel 1, 2nd receives only MIDI channel 2 etc.

Band management panel

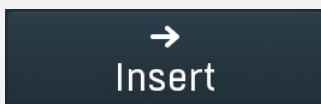


Band management panel contains basic features to create, delete and manipulate bands.



Insert left

Insert left button inserts a new band to the left of the currently-selected band (the last one that you clicked on).



Insert right

Insert right button inserts a new band to the right of the currently-selected band (the last one that you clicked on).



Delete

Delete button deletes the currently-selected band (the last one that you clicked on).



Expand band

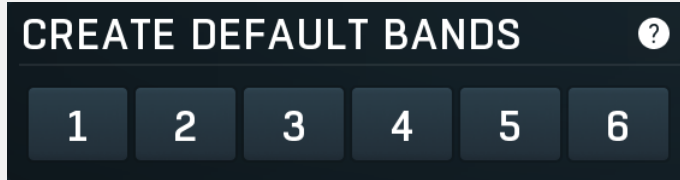
Expand band button solos (or unsolos) the band that you clicked on and disables the crossover temporarily, so that you can audition what the settings of this band would do to the entire signal, without any of the other bands having any affect.

Auto-set limits by analyzer

Auto-set limits by analyzer

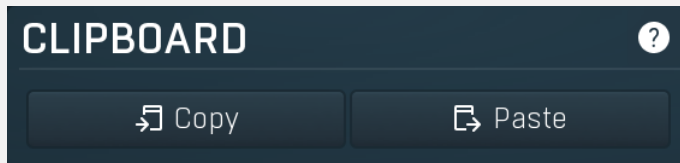
Auto-set limits by analyzer button adjusts the band limits using the current analyzer state, so that there's approximately the same signal level in each band. It is often useful to increase the averaging in the analyzer settings, so that the analysis doesn't 'jump' that quickly.

Create default bands panel



Create default bands panel lets you easily create a predefined set of bands. This is the easiest way to say create default plugin settings with 4 bands.

Clipboard panel




Clipboard panel contains features to transfer band settings via the system clipboard. Note that as always you can paste the settings as text into an email or forum post for example.

 Copy

Copy

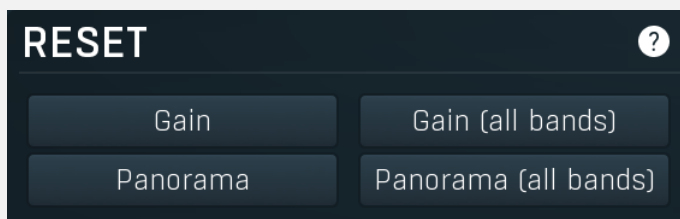
Copy button copies the band settings into the system clipboard. Note that the plugin band parameter settings are not copied; only the band limits, gains and panoramas.

 Paste

Paste

Paste button loads the band settings from the system clipboard. Note that the plugin band parameter settings are not pasted; only band limits, gains and panoramas.

Reset panel



Reset panel lets you reset some band parameters.

Gain

Gain

Gain button resets the input gain of the currently-selected band (the last one that you clicked on) to 0dB.

Gain (all bands)

Gain (all bands)

Gain (all bands) button resets the input gain of all bands to 0dB.

Panorama

Panorama

Panorama button resets the input panorama of the currently-selected band (the last one that you clicked on) to center.

Panorama [all bands]

Panorama (all bands)

Panorama (all bands) button resets the input panorama of all bands to center.

Crossover panel

CROSSOVER

Analog

Analog LP

Linear-phase

Hybrid

Level

Panorama

Mid/Side

Parallel

Spectrum

Tonal/Transient

Serial

Slope	6dB/oct A	6dB/oct B	12dB/oct
	24dB/oct	48dB/oct	72dB/oct
	96dB/oct	120dB/oct	
Level	silence		
Level slope	50%		
Transient release	50 ms		
Transient resolution	50 ms		
Smoothing	0.00%		
Tone	0.00 dB		
Spectral resolution	50%		
<input checked="" type="checkbox"/> Process side-chain			

Crossover panel contains configuration of the crossover used to separate the signals for each band. **Crossover** is a technical term for an algorithm or device which splits a signal into multiple bands (or signals), which when mixed back together recreate the original signal (meaning that the crossover is transparent). The plugin provides several types of crossover with a flat (or nearly flat) response, which means that whichever crossover you choose and whatever signal you send into the plugin, the output levels of each frequency, after the bands are mixed back together to get the output signal, will be (almost) exactly the same, unless there is some processing applied in the bands themselves. Most of the available crossover types produce bands with different frequency ranges; however there are also a few more creative ones.

Analog crossovers have no latency, but they exhibit a phase-shift. That is usually irrelevant unless you are going to mix the output with the input later on. Analog crossovers are based on the classic analog components that you can find in speaker systems for example, however they are perfectly accurate and their slope (band separation) ranges from 6dB/octave to a very steep 120dB/octave. The higher the slope is, the more separated is each band (that is, there is less overlap between bands), but also the bigger is the phase shift. That can reach such an extent that some bassy materials become severely phasey, which may or may not be a good thing. An exception to the rule is the 6dB/oct crossover, which is zero-phase naturally. Its disadvantage is that the separation between bands is rather low, 6dB/oct is often not enough.

Analog LP crossover is a linear-phase equivalent to the **Analog** crossover. It introduces latency as does any linear-phase filter, but it does not cause a phase-shift. This may be especially advantageous for higher filter slopes, which, with classic analog crossovers, would cause severe transient smearing. Please note that the crossover type may not be 100% transparent, especially with small bands in bass spectrum and high slopes.

Linear-phase crossover is a fully digital crossover with a high slope (frequency-dependent), which introduces latency, but exhibits no phase-shift. This crossover mode is designed specifically for mastering.

Hybrid crossover is linear-phase as well, hence it introduces latency, but no phase-shift. However, its slope is more similar to the slopes of the analog crossovers.

Level crossover is a very specialized tool, which doesn't filter the input signal at all (hence it is not only linear-phase, but also zero-phase). Instead of filtering, it simply performs a gain on each band in such a way that when all the bands are mixed back

together, the output is the original signal again. When you select this crossover, the spectrum analyzer graph disappears and the X axis in the band editor changes from frequencies to dB levels. So the band limits are not frequencies anymore, but rather sound levels.

The current level displayed in the graph area is controlled by the **Level** value below and you are likely to use a modulator, most likely in **Follower** mode, to control this latter value. The crossover then applies gain to each band depending on how much the current level fits into the band. The **Slope** parameter controls how quickly each band fades into the adjacent one. This crossover effectively turns the plugin into a very advanced dynamics processor; using a Follower Modulator the band used to process the input audio depends on the audio level.

The are many possibilities for this crossover. But the basic principle is to select a spare Modulator, configure it as a Follower and select the Global parameter "Crossover Level value" as its target, with a "Full range" range mode. After configuring the Modulator, you will be able to see the detected value curve in the Modulator's Level graph. Then if the input signal is strongest, the right most band is processed etc. So if you for example use a delay with 2 bands and set the band limit high enough, the 2nd band will be processing only the loud parts of the signal and vice versa.

Panorama crossover is another specialized tool, similar to the level crossover; it splits the signal into bands according to the panorama. If, for example, you create 3 evenly spaced bands (100%L to 33%L, 33%L to 33%R, 33%R to 100%R), then the leftmost band will contain mainly the signals located in the left speaker, the rightmost band will contain mainly signals from the right speaker and the middle band will contain centred signals. Please note that this doesn't mean the crossover attempts to analyze the space the signals are coming from and send them to the respective bands, which is probably what your brain would attempt.

This crossover is useful only when processing stereophonic (or surround, in which case the channels from 3 upwards are kept intact) signals and can be used for all kinds of mixing and creative processing. For example, using a multiband compressor with this crossover can be used to effectively control the stereo image as each band would be processing a different part of the stereo image. To mention another example, a multiband delay or reverb can be used to produce a different ambience for different parts of the stereo image.

Mid/side crossover is similar to panorama crossover, but it splits the signal according to their position in mid/side location. In other words, the more to the left a band, the more centred is the signal in it. Similarly the more to the right a band, the more "to the side" is the signal in it. You can think of it as the panorama view folded back on itself, around the center position. If, for example, you create 3 evenly spaced bands (centre to 33% L or R, 33% L or R to 67% L or R, 67% L or R to 100% L or R), then the leftmost band will contain the centred signal, the rightmost band will contain the signals to the extreme left or right and the middle band will contain signals in between. It can be used for similar tasks as the panorama crossover.

Parallel crossover is not a crossover actually, it simply disables the crossover and as a result each band processes the full input signal. In practice this "not really crossover" mode lets you process multiple streams of the input audio signal in parallel. As a consequence there is likely to be an increase in output level, so take care and turn down the output level first. For example, if you use a compressor, this in effect produces an extreme parallel compression. As another example, you can use a reverb to produce several rooms in parallel, potentially leading to a fuller space for example.

Spectrum crossover is the first of the spectral crossovers. It splits the signal into individual frequencies, analyzes their levels and sends the frequencies with the highest level into the highest band etc. It marks each frequency with its level (as you can see on the dB scale on the X axis in the crossover band editor) and puts it into the appropriate band. The crossover is linear-phase and fully transparent.

It provides a huge (not only) creative potential as it lets you process the dominant and weak parts of the signal individually. For instance, by compressing the dominant frequencies using MDynamicsMB you can bring more attention to the unsubstantial frequencies in the signal and in a way stabilize it without disrupting the silent parts of it. Note that this is NOT the same thing as using a normal compressor, because this way it treats only the loud frequencies even if the weak frequencies are present at the same time. Another example could be using MDelayMB to generate echoes only to the dominant parts of the signal, such as snare and bass drums in a drum loop.

Transient crossover is also a spectral crossover. It splits the signal into individual frequencies and sends the transient parts for each of them into the highest band etc. It marks each frequency with its "current transientness" (defined by the percentage scale that you can see on the X axis in the crossover band editor) and puts it into the appropriate band. The crossover is linear-phase and fully transparent.

It provides a huge (not only) creative potential as it lets you process split the signal into tonal and transient parts (and anything in between) and treat each individually. For instance, by compressing the transients using MDynamicsMB you can easily control the attack of drums. Note that this is NOT the same thing as using a normal compressor, because this way you can treat only the attacks in an already mixed signal without affecting the remaining part of the signal. Another example could be using MDelayMB to generate echoes only for the attacks of each drum.

Serial crossover is not a crossover actually, it simply disables the crossover and processes all bands in series. For instance a multiband compressor can be exploited to perform multiple compressions in series, which is often considered better sounding compared to a single compressor driven hard. Please note that if each band has a latency, the latencies will add up.

	6dB/oct A	6dB/oct B	12dB/oct
Slope	24dB/oct	48dB/oct	72dB/oct
	96dB/oct	120dB/oct	

Slope

Slope defines the slope of each band transition and is used only by analog crossovers (including the linear-phase versions). It essentially controls the separation between the bands - the higher the slope, the lower the overlap between bands. Higher slopes require more CPU power and exhibit higher phase shift, which may be a problem especially when percussive materials. In these cases it may be necessary to switch to a linear-phase version.

Interesting exception to the classic rule are the 6dB/oct crossovers, which are linear-phase by nature (while still being zero latency), because the bands compensate for each other's phase shift. A side-effect of this is that the signal level in each band is much higher than using other crossovers, so you may expect these crossovers sound considerably different to the other modes.

Level  Level value

Level value is used only with **Level crossover** and controls the level at which the signal is split into each band. You will probably want to attach this parameter to a modulator in Follower mode for instance.

Level slope  Level slope


Level slope is used only with some crossover modes (Level, Spectrum and Tonal/Transient) and controls how quickly each band fades into the next one. It's similar to the **Slope** parameter used with analog crossovers.

Transient release  Transient release

Transient release is only used by the **Tonal/Transient** crossover and controls the release time of each transient. The transients detected by the crossover are naturally very short, so this provides a way to make them longer, hence send more signal to the higher bands of the crossover (receiving transients) and less to the lower bands (receiving the remaining part of the signal).

Transient resolution  Transient resolution

Transient resolution is only used by the **Tonal/Transient** crossover and controls the behaviour of the spectral transient detector. You can use it to adjust the crossover to your audio material and we would recommend a simple trial-and-error approach.

Smoothing  Smoothing


Smoothing is only used by spectral crossovers and controls how frequencies affect their surroundings. Without smoothing the individual bands may sound a bit artificial, because human brain general dislikes separated frequencies. It usually doesn't matter unless you audition the bands separately, but sometimes when more "brutal" processing is used on each band, it may become audible, which is where the smoothing can provide a solution at the cost of additional CPU and lower separation between bands, because it naturally makes the frequencies "more alike".

Tone  Tone

Tone is only used by spectral crossovers and controls the spectral slope applied by the detector. It is exactly the same feature as the **Slope** in analyzers and the crossover uses it to determine how to spread the frequencies between the bands. Higher slope gives more energy to higher frequencies and vice versa. Note that whatever the settings are, the crossover still produces signals that perfectly sum to the original input signal, meaning that it is perfectly transparent and unless the bands are actually doing something, you won't be able to hear a difference when changing this parameter.

Spectral resolution  Spectral resolution

Spectral resolution is only used by spectral crossovers and controls the spectral transformation settings. The higher the value is, the higher FFT size and overlap size is used, and therefore more CPU is usually required as well. Whether higher/lower value is good or not depends on the actual signal, the default 50% should work well with most audio materials. Higher values will generally provide better frequency resolution (usually good for less percussive sounds), lower values will provide better time resolution (usually good for more percussive sounds), eventually it is always about a compromise.

 Process side-chain Process side-chain

Process side-chain option makes sure the side-chain is processed by the crossover as well as the main input. If you disable this option, main input will be processed of course, but side-chain will not. This may be handy e.g. in a multiband dynamics processor, which should react to the entire signal, but process each bands individually.

Analyzer panel

ANALYZER ?

☒ Analyzer

☐ Fill

☐ Sonogram

☐ Pause

☒ Normalize

 Settings

Analyzer panel lets you configure the fully featured integrated analyzer and sonogram.

 Settings

Settings

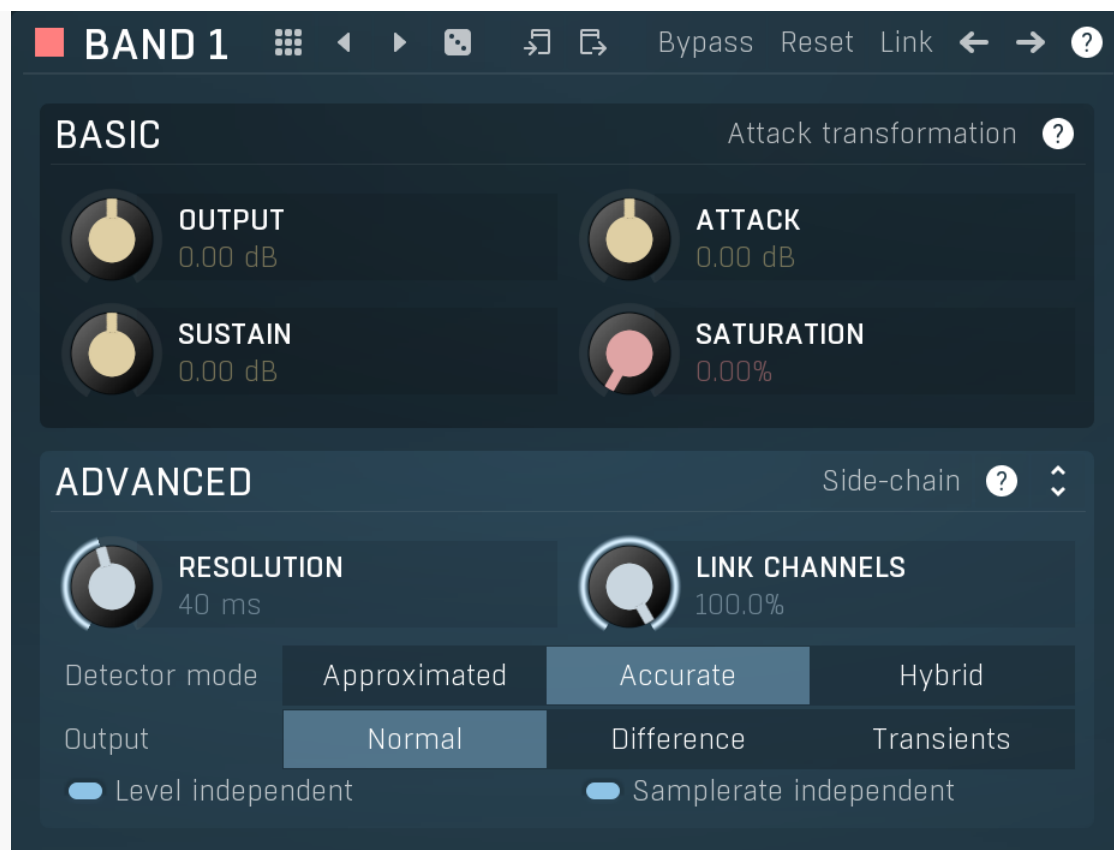
Settings button shows the settings of the spectrum analyzer and the spectrum sonogram.



Collapse

Collapse button minimizes or enlarges the panel to release space for other editors.

Band panel



Band panel contains parameters of a particular band. You can select a band using the band editor above, just click on the band in the graph.



Presets

Presets button shows a window with all available presets. A preset can be loaded from the preset window by double-clicking on it, selecting via the buttons or by using your keyboard. You can also manage the directory structure, store new presets, replace existing ones etc. Presets are global, so a preset saved from one project, can easily be used in another. The arrow buttons next to the preset button can be used to switch between presets easily.

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Left arrow

Left arrow button loads the previous preset.



Right arrow

Right arrow button loads the next preset.



Randomize

Randomize button loads a random preset.



Copy

Copy button copies the settings onto the system clipboard.



Paste

Paste button loads the settings from the system clipboard.

Reset

Reset

Reset button loads the default settings.

Link

Link

Link button enables parameter linking between bands. Every parameter change performed with this enabled changes that parameter in all bands. Please note that some more rare parameters, which are not available for assignment and automation, may not be changed. But **Pasting** settings from the system clipboard does not change the other bands.



Left

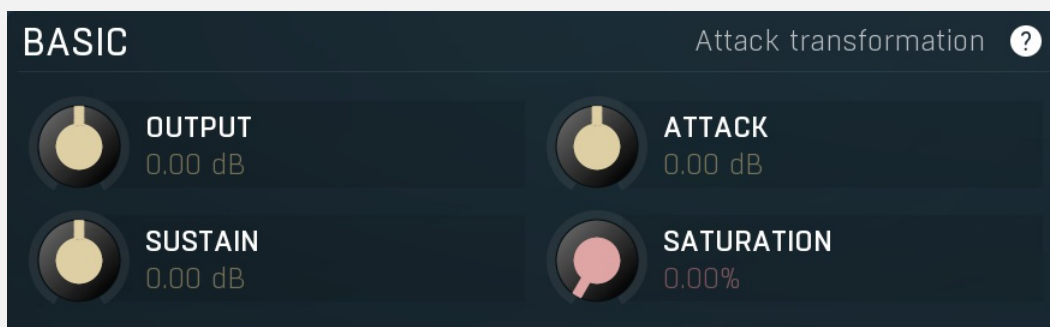
Left button selects the previous band. If this is the first band, it selects the last one instead. This way you can easily cycle between the bands if selecting them in the band editor is hard because they are modulated for example.



Right

Right button selects the next band. If this is the last band, it selects the first one instead. This way you can easily cycle between the bands if selecting them in the band editor is hard because they are modulated for example.

Basic panel

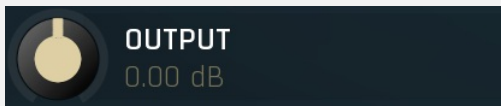


Basic panel contains the most important transient processor parameters.

Attack transformation

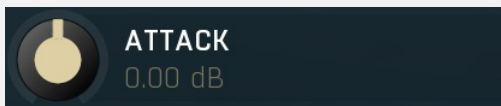
Attack transformation

Attack transformation lets you perform an arbitrary transformation on the attack stages. It is applied in the level independent algorithm only. The transformation graph changes the gain applied to individual samples. The X axis defines the default gain that the plugin would perform for a sample. The Y axis defines the gain that you would like to perform for such a sample. So for example, a horizontal line graph at 0% would make the processor do nothing, because any gain the plugin would like to perform would be transformed to 0%, hence +0dB. Conversely a horizontal line graph at 100% would cause a highly overdriven output, because all samples in the attack stage would be amplified by the value defined by **Attack** parameter.



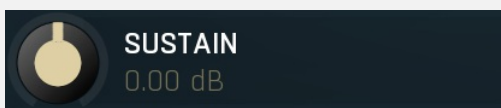
Output gain

Output gain defines the gain applied to the output. The plugin also applies some compensation for any gain added by processing.
Range: -24.00 dB to +24.00 dB, default 0.00 dB



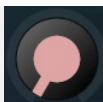
Attack

Attack defines the gain applied to the attack stage.
Range: -24.00 dB to +24.00 dB, default 0.00 dB



Sustain

Sustain defines the gain applied to the sustain stage. please note that this acts only on the short part of signal following the attack part. For small **Resolution** values this may produce results that are too fluctuating or even distorting.
Range: -24.00 dB to +24.00 dB, default 0.00 dB



SATURATION

0.00%

Saturation

Saturation defines the amount of saturation applied to the added attack signal. You can use it to highlight the attacks even more by adding harmonics instead of increasing the gain more than necessary.

Range: 0.00% to 100.0%, default 0.00%

Advanced panel

ADVANCED Side-chain ?

RESOLUTION
40 ms

LINK CHANNELS
100.0%

Detector mode

Approximated
Accurate
Hybrid

Output

Normal
Difference
Transients

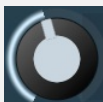
☒ Level independent
☒ Samplerate independent

Advanced panel contains more advanced transient processor parameters.

Side-chain

Sidechain

Sidechain switch makes the plugin follow the side-chain input instead of the main input. This can be handy if you want to emphasise attacks from one instrument in another one - typically follow the drums and apply the transient processing to a pad for example.



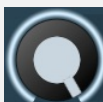
RESOLUTION

40 ms

Resolution

Resolution determines the transient detector resolution. As a result this affects the length of the attack and sustain stages.

Range: 0 ms to 200 ms, default 20 ms



LINK CHANNELS

100.0%

Link channels

Link channels controls how much the signal level for each channel is controlled by the other channels. With 0% the link is disabled and each channel is not affected by the other channels at all. This is suitable to balance stereo channels, for example. With 100% the link is enabled and all channels are controlled by levels of all channels equally (that is the average level of those channels), therefore the processor will apply the same amount of processing on all channels. This is the default in most cases as it preserves relative levels between the channels.

Range: 0.00% to 100.0%, default 0.00%

Detector mode

Approximated

Accurate

Hybrid

Detector mode

Detector mode selects the algorithm that the plugin uses to detect transients. None of the modes are better or worse, so you can choose subjectively. Approximated mode takes the least amount of CPU, but its response especially in sustain stages may be not accurate, which can however be advantageous in some cases. Accurate is the default, it takes the most CPU, but its response is as accurate as possible in both the attack and release stages. Hybrid falls in between the 2 modes.

Output

Normal

Difference

Transients

Output

Output defines the type of the output signal. You can listen either to the output signal, or to the added (or subtracted) signal, or to the transients themselves.

☒ Level independent

Level independent

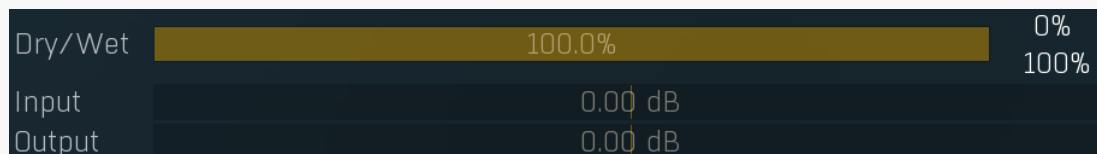
Level independent activates the advanced algorithm, which makes the plugin react in the same way to loud and silent signals. When this is disabled the higher the input level, the more prominent the effect. When enabled however, changing the input level has only a minimum effect, mostly on the saturation.

☒ Samplerate independent

Samplerate independent

Samplerate independent makes the plugin compensate for the sampling rate change to ensure approximately the same response. This is available only for the sake of backward compatibility and should be enabled.

Global parameters panel



Global parameters panel contains global controls, which are usually relevant to global processing performed either before the signal reaches the crossover and gets split into bands, or after the signals are processed and summed back to the master signal.



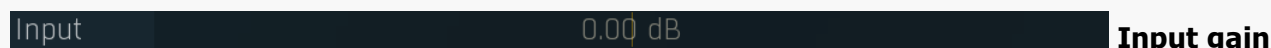
Dry/Wet defines the ratio between dry and wet signals. 100% means fully processed, 0% means no processing at all.

0% **0%**

0% button makes the **Dry/Wet** virtually 0%. You can use it for comparison.

100% **100%**

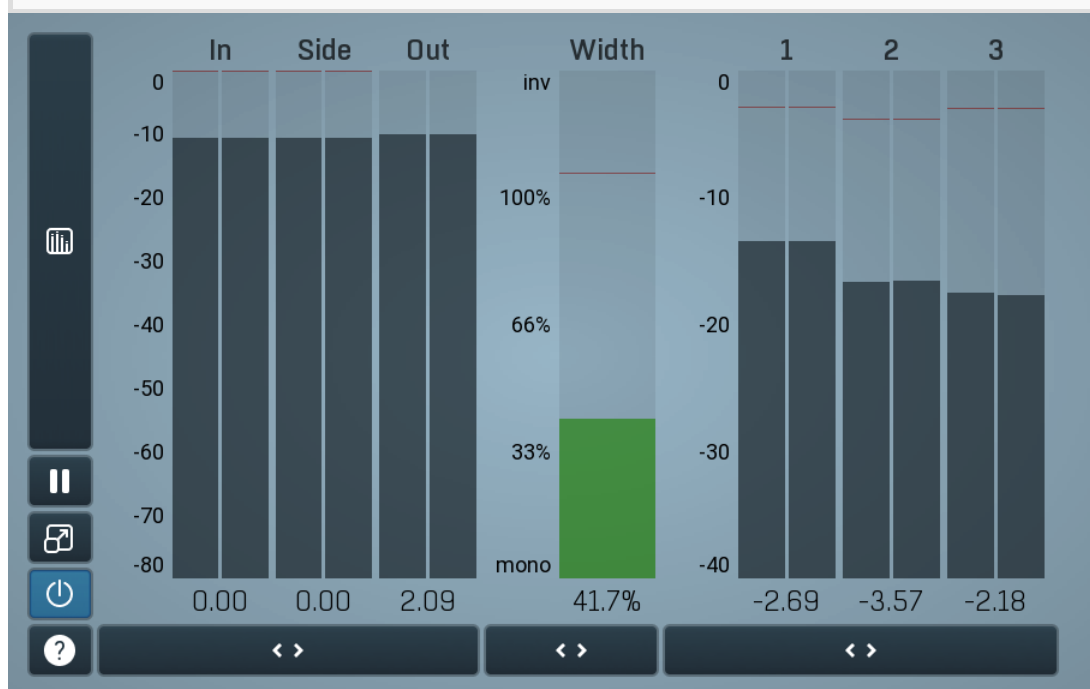
100% button makes the **Dry/Wet** virtually 100%. You can use it for comparison.



Input gain defines the power modification applied to the incoming signal, before it is split into bands.



Output gain defines the power modification applied to the output signal, right after it is summed from the bands.



Global meter view

Global meter view provides a powerful metering system. If you do not see it in the plug-in, click the **Meters** or **Meters & Utilities** button to the right of the main controls. The display can work as either a classical level indicator or, in time graph mode, show one or more values in time. Use the first button to the left of the display to switch between the 2 modes and to control additional settings, including pause, disable and pop up the display into a floating window. The meter always shows the actual channels being processed, thus in M/S mode, it shows mid and side channels.

In the classical level indicators mode each of the meters also shows the recent maximum value. Click on any one of these values boxes to reset them all.

Numbered band meters display the input levels for each band.

In meter indicates the total input level. The input meter shows the audio level before any specific processing (except potential oversampling and other pre-processing). It is always recommended to keep the input level under 0dB. You may need to adjust the previous processing plugins, track levels or gain stages to ensure that it is achieved.

As the levels approach 0dB, that part of the meters is displayed with **red** bars. And recent peak levels are indicated by single bars.

Out meter indicates the total output level. The output meter is the last item in the processing chain (except potential downsampling and other post-processing). It is always recommended to keep the output under 0dB.

As the levels approach 0dB, that part of the meters is displayed with **red** bars. And recent peak levels are indicated by single bars.

Width meter shows the stereo width at the output stage. This meter requires at least 2 channels and therefore does not work in mono mode. Stereo width meter basically shows the difference between the mid and side channels.

When the value is **0%**, the output is monophonic. From 0% to 66% there is a green range, where most audio materials should remain.

From 66% to 100% the audio is very stereophonic and the phase coherence may start causing problems. This range is colored blue. You may still want to use this range for wide materials, such as background pads. It is pretty common for mastered tracks to lie on the edge of green and blue zones.

Above 100% the side signal exceeds the mid signal, therefore it is too monophonic or the signal is out of phase. This is marked using red color. In this case you should consider rotating the phase of the left or right channels or lowering the side signal, otherwise the audio will be highly mono-incompatible and can cause fatigue even when played back in stereo.

For most audio sources the width is fluctuating quickly, so the meter shows a 400ms average. It also shows the temporary maximum above it as a single coloured bar.

If you right click on the meter, you can enable/disable loudness pre-filtering, which uses EBU standard filters to simulate human perception. This may be useful to get a more realistic idea about stereo width. However, since humans perceive the bass spectrum as lower than the treble, this may hide phase problems in that bass spectrum.



Time graph

Time graph button switches between the metering view and the time-graphs. The metering view provides an immediate view of the current values including a text representation. The time-graphs provide the same information over a period of time. Since different time-graphs often need different units, only the most important units are provided.



Pause

Pause button pauses the processing.



Popup

Popup button shows a pop-up window and moves the whole metering / time-graph system into it. This is especially useful in cases where you cannot enlarge the meters within the main window or such a task is too complicated. The pop-up window can be arbitrarily resized. In metering mode it is useful for easier reading from a distance for example. In time-graph mode it is useful for getting higher accuracy and a longer time perspective.



Enable

Enable button enables or disables the metering system. You can disable it to save system resources.



Collapse

Collapse button minimizes or enlarges the panel to release space for other editors.



Collapse

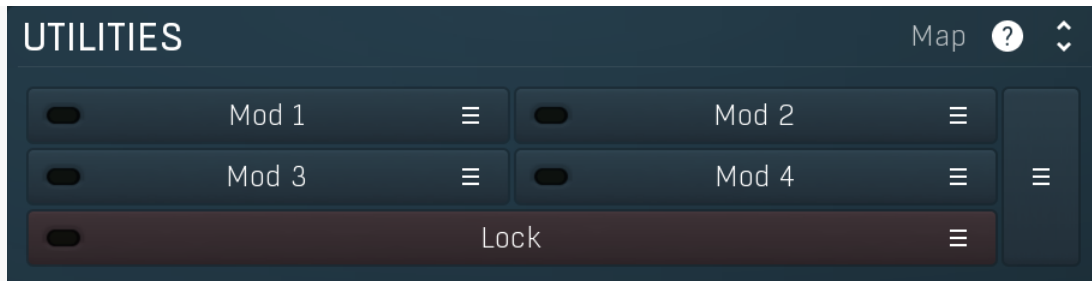
Collapse button minimizes or enlarges the panel to release space for other editors.



Collapse

Collapse button minimizes or enlarges the panel to release space for other editors.

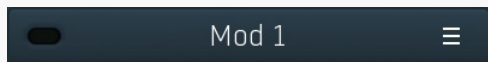
Utilities



Map

Map

Map button displays all current mappings of modulators, multiparameters and MIDI (whichever subsystems the plugin provides).



Modulator

Modulator button displays settings of the modulator. It also contains a checkbox, to the left, which you can use to enable or disable the modulator. Click on it using your right mouse button or use the **menu button** to display an additional menu with learning capabilities - as described below.



Menu

Menu button shows the **smart learn** menu. You can also use the right mouse button anywhere on the modulator button.

Learn activates the learning mode and displays "REC" on the button as a reminder, **Clear & Learn** deletes all parameters currently associated with the modulator, then activates the learning mode as above. After that every parameter you touch will be associated to the modulator along with the range that the parameter was changed. Learning mode is ended by clicking the button again.

In smart learn mode the modulator does not operate but rather records your actions. You can still adjust every automatable parameter and use it normally. When you change a parameter, the plugin associates that parameter with the modulator and also records the range of values that you set.

For example, to associate a frequency slider and make a modulator control it from 100Hz to 1KHz, just enable the smart learn mode, click the slider then move it from 100Hz to 1KHz (you can also edit the range later in the modulator window too). Then disable the learning mode by clicking on the button.



Menu

Menu button displays additional menu containing features for modulator presets and randomization.



Lock

Lock button displays the settings of the global parameter lock. Click on it using your left mouse button to open the Global Parameter Lock window, listing all those parameters that are currently able to be locked.

Click on it using your right mouse button or use the **menu button** to display the menu with learning capabilities - **Learn** activates the learning mode, **Clear & Learn** deletes all currently-lockable parameters and then activates the learning mode. After that, every parameter you touch will be added to the lock. Learning mode is ended by clicking the button again.

The On/Off button built into the Lock button enables or disables the active locks.



Collapse

Collapse button minimizes or enlarges the panel to release space for other editors.



Multiparameter

Multiparameter button displays settings of the multiparameter. The multiparameter value can be adjusted by dragging it or by pressing Shift and clicking it to enter a new value from the virtual keyboard or from your computer keyboard.

Click on the button using your left mouse button to open the **Multiparameter** window where all the details of the multiparameter can be set. Click on it using your right mouse button or click on the **menu button** to the right to display an additional menu with learning capabilities - as described below.



Menu

Menu button shows the **smart learn** menu. You can also use the right mouse button anywhere on the multiparameter button.

Learn attaches any parameters, including ranges. Click this, then move any parameters through the ranges that you want and click the multiparameter button again to finish. While learning is active, "REC" is displayed on the multiparameter button and learning mode is ended by clicking the button again.

Clear & Learn clears any parameters currently in the list then attaches any parameters, including ranges. Click this, then move any parameters through the ranges that you want and click the multiparameter button again to finish. While learning is active, "REC" is displayed on the multiparameter button and learning mode is ended by clicking the button again.

Reset resets all multiparameter settings to defaults.

Quick Learn clears any parameters currently in the list, attaches one parameter, including its range and assigns its name to the multiparameter. Click this, then move one parameter through the range that you want.

Attach MIDI Controller opens the MIDI Settings window, selects a unused parameter and activates MIDI learn. Click this then move the MIDI controller that you want to assign.

Reorder to ... lets you change the order of the multiparameters. This can be useful when creating active-presets. Please note that this feature can cause problems when one multiparameter controls other multiparameters, as these associations will not be preserved and they will need to be rebuilt.

In learning mode the multiparameter does not operate but rather records your actions. You can still adjust every automatable parameter and use it normally. When you change a parameter, the plugin associates that parameter with the multiparameter and also records the range of values that you set.

For example, to associate a frequency slider and make a multiparameter control it from 100Hz to 1KHz, just enable the smart learn mode, click the slider then move it from 100Hz to 1KHz (you can also edit the range later in the Multiparameter window too). Then disable the learning mode by clicking on the button.



Collapse

Collapse button minimizes or enlarges the panel to release space for other editors.

