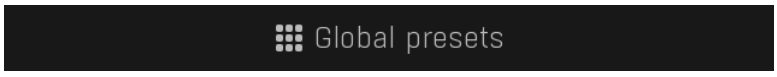
MTurboDelay

Devices

This plugin can be though of as a collection of plugins listed on the left side of the GUI. Select a device simply by clicking on it. Its GUI will appear on the right side. Compared to other MeldaProduction plugins it doesn't have any **edit screen**, so you cannot edit the internal functionality, which may be extremely complex. If you are interested in complex editing, please check **MXXX, the ultimate modular effect**.



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

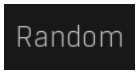
Left arrow button loads the previous preset.

Right arrow

Right arrow button loads the next preset.

Randomize

Randomize button loads a random preset.



Randomize

Randomize button (with the text 'Random') generates random settings. Generally, randomization in plug-ins works by selecting random values for all parameters, but rarely achieves satisfactory results, as the more parameters that change the more likely one will cause an unwanted effect. Our plugins employ a smart randomization engine that learns which settings are suitable for randomization (using the existing presets) and so is much more likely to create successful changes.

In addition, there are some mouse modifiers that assist this process. The smart randomization engine is used by default if no modifier keys are held.

Holding **Ctrl** while clicking the button constrains the randomization engine so that parameters are only modified slightly rather than completely randomized. This is suitable to create small variations of existing interesting settings.

Holding **Alt** while clicking the button will force the engine to use full randomization, which sets random values for all reasonable automatable parameters. This can often result in "extreme" settings. Please note that some parameters cannot be randomized this way.

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.

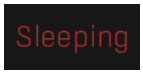
Global system settings contains some settings for all MeldaProduction plugins. Once you change any of them, restart your DAW if needed, and it will affect all MeldaProduction plugins.

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.

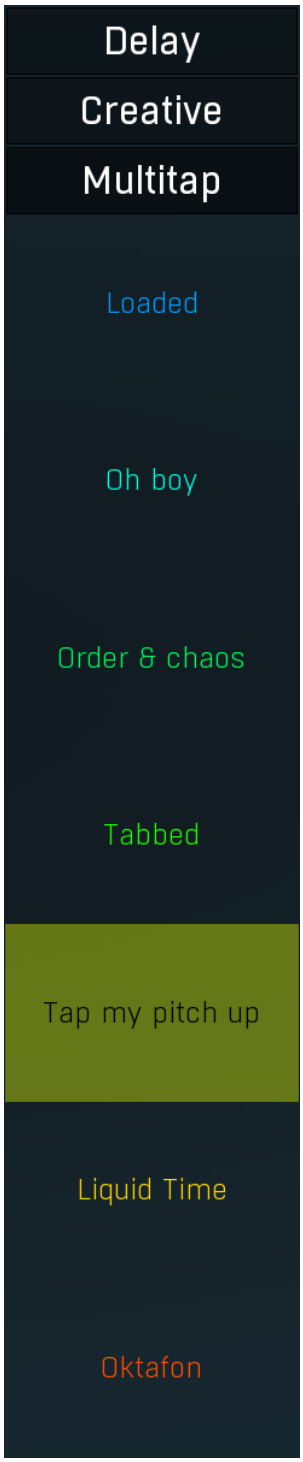


Sleep indicator

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.

Reload

Reload button reloads the device and sets all non-locked controls in the current device to their default values. It may be useful, since the plugin stores current settings when switching between the devices, hence this button is a quick and easy way to get the defaults for the devices, before you changed them. If you want to reload all parameters for the device, you must unlock the Easy screen locks or disable them all by turning off the On/Off button in the Global Locking panel in Edit mode.



Device selector

Device selector lets you choose from the predefined devices (previous 'active presets'). These are different from normal presets as they can actually have Easy-mode controls available via knobs or buttons. Click on an device to load it. Check out our video tutorials for information about creating your own devices. Although you cannot put your own devices into this selector, you can still save them as normal presets and on loading they will work in the exactly same way.
When browsing the devices, the plugin stores the control values (multiparameters). It doesn't store the full settings, only the multiparameters, so that if you switch between the devices, your settings will be kept intact, unless you switch to edit screen and perform some advanced editing, in which case it is recommended to use the A-H presets to store your work.

Collapse

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

Tap my pitch up

Tap my pitch up is a sixteen-tap spectral delay. It features control over pitch, frequency shifting and formant on a per-tap basis. The spectral processing is inside a feedback loop making the pitch effect increase with each pass-through.

Presets

Presets button displays a window where you can load and manage available presets. Hold **Ctrl** when clicking to load a random preset instead.

Left arrow

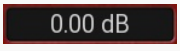
Left arrow button loads the previous preset.

Right arrow

Right arrow button loads the next preset.

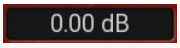
Randomize

Randomize button loads a random preset.



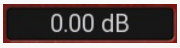
Delay gain

Delay gain controls the volume of the delay signal.



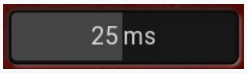
Delay gain

Delay gain controls the volume of the delay signal.



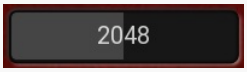
Output gain

Output gain controls the final output volume of the plugin.



Resolution

Resolution defines how accurately the processor can analyze the audio. The lower the resolution, the more CPU is needed, but also more of the time domain characteristics are preserved, hence potentially higher audio quality.



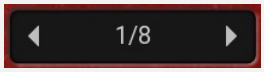
Buffer size

Buffer size controls the block size used for processing. This plugin performs processing in the so-called spectral domain. This allows it to access features that are normally unavailable, however in order to do that it requires the audio to be separated into blocks of audio. As a result, the plugin causes latency. This setting controls the latency length. Additionally, the higher it is the more detail the plugin has, which usually provides higher audio quality (but this is not always the case!), at the expense of greater CPU cost and increased latency. Also note that with some settings having too high a buffer size will produce a sort of time-smearing, ambient-like sound quality. Also note that this value is assigned only for sampling rates around 44-48KHz, the engine may readjust it for higher sampling rates in order to get similar audio results.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

LP

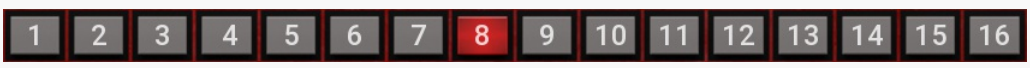
LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.



Taps

Taps selects the number of delay taps.

Pitch

Pitch controls the pitch of each delay tap, this is measured in semitones.

Randomize creates random values for all taps.

Formant
Formant controls the formant of each delay tap.

Randomize creates random values for all taps.

Frequency
Frequency controls the frequency shift of each delay tap.

Randomize creates random values for all taps.

Level
Level controls the volume of each delay tap.

Stepped / Continuous
Stepped / Continuous button lets you switch between 2 editor modes - stepped, which resembles the vintage analog gear by providing only a limit set of values, and continuous, which is traditional for digital user interfaces. There is absolutely no difference in sound, however for some people it is easier to have limited set of options to choose from, hence they prefer stepped mode. Others enjoy the full capacity of the digital processing, hence they prefer continuous mode.

BBD

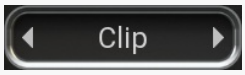
Delay gain
Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Mode



Mode selects the type of saturation.

Shape

Shape selects the LFO shape for the vibrato modulation.

Rate
Rate Controls the speed of the vibrato.

Depth
Depth controls how much vbrato there will be.

Harmonics
Harmonics controls the amount of even harmonic.

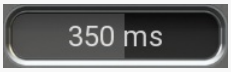
Drive
Drive controls the amount of saturation.

Low
Low controls the gain of a low shelf EQ.

Mid
Mid controls the gain of a mid peak EQ.

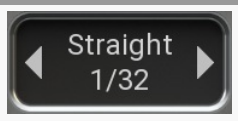
High
High controls the gain of a high shelf EQ.

Width
Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.



Delay
Delay controls the delay time.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Release
Release controls how fast the ducked signal will return to it's normal volume.

Ducking

Ducking reduces the level of the delay when the dry signal is present. This is a great way to stop the delay from overwhelming the sound and lets it cut through a mix more clearly.

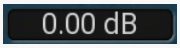
Ping/Pong

Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Repeats

Repeats controls how long the tail of delays last. It is very similar to feedback, however it also changes some other processors such as filter and saturation.

Digital

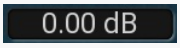


Delay gain

Delay gain controls the volume of the delay signal.

Output gain

Output gain controls the final output volume of the plugin.



Delay gain

Delay gain controls the volume of the delay signal.

Shuffle

Shuffle simulates shuffling by offseting every other delay.

Ducking

Ducking reduces the level of the delay when the dry signal is present. This is a great way to stop the delay from overwhelming the sound and lets it cut through a mix more clearly.

Release

Release is the amount of time it takes for the ducked signal to return to it's normal volume.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

HP

HP controls the frequency of the high-pass filter.

Low

Low controls the gain of a low shelf EQ.

LP

LP controls the frequency of the low-pass filter.

High

High controls the gain of a high shelf EQ.

Mid

Mid controls the gain of a mid peak EQ.

Bass

Bass controls the amount of bass in the reverberated signal.

Treble

Treble controls the amount of treble in the reverberated signal.

Length

Length controls the reverb time.

Dry/Wet

Dry/Wet controls the amount of reverberated signal that will be mixed with the dry signal.

Shape

Shape selects the shape of the LFO used for the vibrato effect.

Rate

Rate controls the speed of the vibrato.

Depth

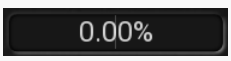
Depth controls the amount of vibrato.

Speed

Speed controls the buffer size for the reverse effect.

Panorama

Panorama controls the stereo position of the delay.



Width

Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.

Ping/Pong

Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Repeats

Repeats controls how long the tail of delays last. It is very similar to feedback, however it also changes some other processors such as filter and saturation.

Style

Style controls the character of the delay.

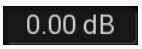
Double dribble

Delay gain

Delay gain controls the volume of the delay signal.

Output gain

Output gain controls the final output volume of the plugin.



Delay gain

Delay gain controls the volume of the delay signal.

Parallel/Serial

Parallel/Serial controls the balance between parallel and serial processing. In parallel the signal it split into 2, delay A and B each process seperately and then the 2 signals are mixed back together. In series the signal is first processed by delay A and then by Delay B.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Shape

Shape selects which shape the LFO will be. Smooth is a sine and stepped is a square.

Shape

Shape selects which shape the LFO will be. Smooth is a sine and stepped is a square.

Shape

Shape selects which shape the LFO will be. Smooth is a sine and stepped is a square.

Speed

Speed controls how fast the modulation will be, this is synced to the host tempo. Slow is 4 bars and fast is 1 bar.

Pan LFO

Pan LFO alternates the level of the left and right channels, essentially this is an auto-pan effect.

Level LFO

Level LFO modulates the level of the delay signal, essentially this is a tremolo effect.

A/B LFO

A/B LFO alternates the level between delay A and B.

Depth

Depth controls the amount of modulation.

Depth

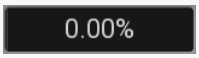
Depth controls the amount of modulation.

Depth

Depth controls the amount of modulation.

Type

Type selects which type of filter will be used.



Q

Q controls the amount of resonance in the filter.

Frequency

Frequency controls the frequency of the filter.

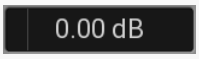
Formant

Formant controls the formant of the unison voices and can be used as a sort of brightness control.

Voices
Voices selects how many voices will be generated by the unison.

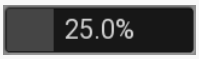
Dry/Wet
Dry/Wet controls the mix of the unison signal and the dry signal.

Style
Style selects which type of distortion will be used.

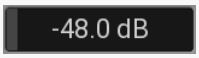


Drive
Drive controls how much signal is fed into the distortion, therefore it controls the amount of distortion.

Dry/Wet
Dry/Wet controls the mix between the distorted signal and the dry signal.



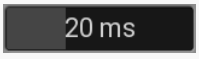
Speed
Speed controls the attack and release times of the dynamic processor.



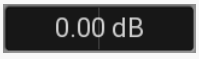
Threshold
Threshold controls the detection level for the dynamic processor.

Ducker
Ducker reduces the level of the delay when the dry signal is present. This is a great way to stop the delay from overwhelming the sound and lets it cut through a mix more clearly.

Strength
Strength controls how much the level will be reduced.



Resolution
Resolution controls the length of the transient.



Gain
Gain is a basic gain, which can be used to compensate for the change in level due to the transient processor.

Transient
Transient is a transent shaper that can be useful to make your delays punchier or softer.

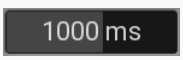
Attack/Sustain
Attack/Sustain controls the balance between the transient and tail volume.

Gain
Gain controls the volume of the pre-delay.

Sync
Sync activates sync mode where the pre-delay time will be in musical values and synced to the host tempo.

Length

Length controls the note value of the pre-delay time, this is synced to the host tempo.



Delay
Delay controls the pre-delay time.

Gain
Gain controls the volume of the pre-delay.

Sync
Sync activates sync mode where the pre-delay time will be in musical values and synced to the host tempo.

Length

Length controls the note value of the pre-delay time, this is synced to the host tempo.

Delay
Delay controls the pre-delay time.

Swap L/R
Swap L/R inverts the left and right channels.

Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

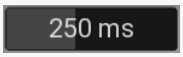
Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

LP
LP controls the frequency of the low-pass filter.

HP
HP controls the frequency of the high-pass filter.

Length

Length controls the note value of the delay time, this is synced to the host tempo.



Delay
Delay controls the delay time.

Pan
Pan controls the stereo position of the delay.

Gain
Gain controls the volume of the delay.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Swap L/R
Swap L/R inverts the left and right channels.

Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

LP

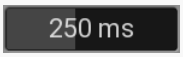
LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Length

Length controls the note value of the delay time, this is synced to the host tempo.



Delay

Delay controls the delay time.

Pan

Pan controls the stereo position of the delay.

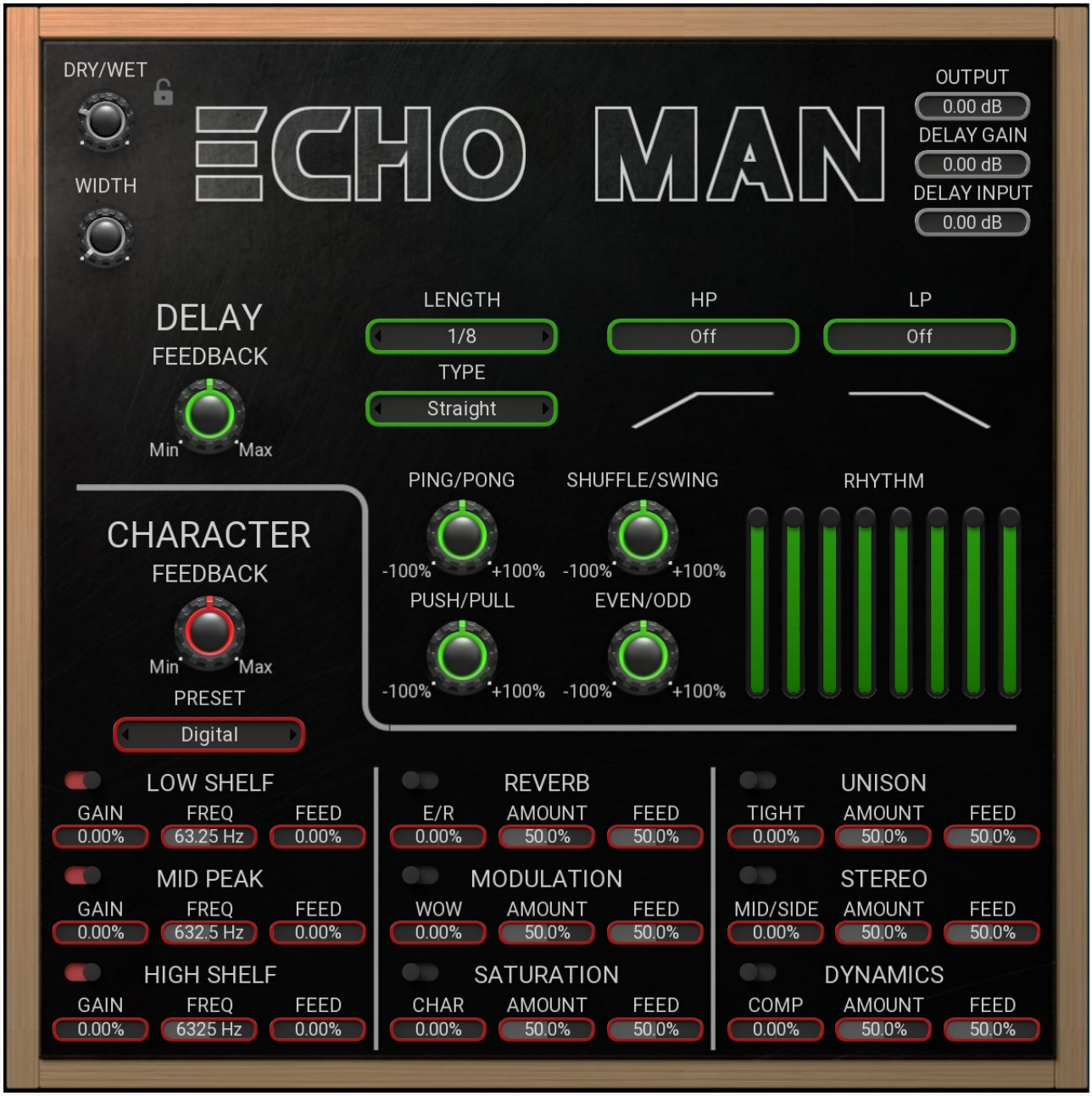
Gain

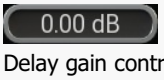
Gain controls the volume of the delay.

Feedback

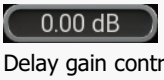
Feedback controls the amount of signal that gets fed back in to the delay's input.

Echo man

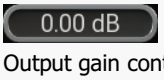




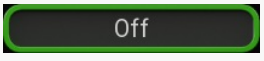
Delay gain
Delay gain controls the volume of the delay signal.



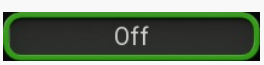
Delay gain
Delay gain controls the volume of the delay signal.



Output gain
Output gain controls the final output volume of the plugin.



LP
LP controls the frequency of the low-pass filter.



HP
HP controls the frequency of the high-pass filter.

Rhythm

Rhythm is a step sequencer that controls the volume of the delay signal. It can be used to create rhythmical motion to the delays.

Even/Odd
Even/Odd controls the even and odd steps in the step sequencer. It can be used to make the delay feel more on beat or off beat.

Push/Pull
Push/Pull controls if the delays will be exactly on the beat or pushed/pulled later/earlier.

Shuffle/Swing
Shuffle/Swing simulates shuffling by offseting every other delay.

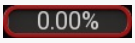
Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Type

Type controls the note type of the delay time, this is synced to the host tempo.

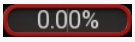
Length

Length controls the note value of the delay time, this is synced to the host tempo.



Feedback
Feedback controls how much of the effect will be fed into the feedback loop.

Frequency
Frequency controls the frequency of the EQ band.

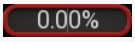


Gain
Gain controls the gain of the EQ band.

Low Shelf
Low Shelf is an adjustable low-shelf EQ used to shape the character of the delay.

Feedback
Feedback controls how much of the effect will be fed into the feedback loop.

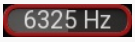
Frequency
Frequency controls the frequency of the EQ band.



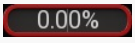
Gain
Gain controls the gain of the EQ band.

Mid Peak
Mid Peak is an adjustable mid-peak EQ used to shape the character of the delay.

Feedback
Feedback controls how much of the effect will be fed into the feedback loop.



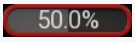
Frequency
Frequency controls the frequency of the EQ band.



Gain
Gain controls the gain of the EQ band.

High Shelf
High Shelf is an adjustable high-shelf EQ used to shape the character of the delay.

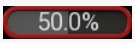
Feedback
Feedback controls how much of the effect will be fed into the feedback loop.



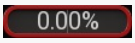
Amount
Amount controls the amount of the effect that will be mixed with the dry signal.

Early/Late
Early/Late controls the balance between the reverb's early and late reflections.

Feedback
Feedback controls how much of the effect will be fed into the feedback loop.

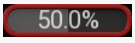


Amount
Amount controls the amount of the effect that will be mixed with the dry signal.



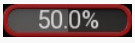
Wow/Flutter
Wow/Flutter controls the speed of the modulation used to simulate tape and vinyl.

Feedback
Feedback controls how much of the effect will be fed into the feedback loop.



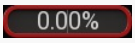
Amount
Amount controls the amount of the effect that will be mixed with the dry signal.

Tape/Tube
Tape/Tube controls the balance between even and odd harmonics used in the saturator.



Feedback
Feedback controls how much of the effect will be fed into the feedback loop.

Amount
Amount controls the amount of the effect that will be mixed with the dry signal.

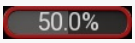


Tight/Loose
Tight/Loose controls the spread and offset of the voices in the unison.

Feedback
Feedback controls how much of the effect will be fed into the feedback loop.

Amount
Amount controls the amount of the effect that will be mixed with the dry signal.

Mid/Side
Mid/Side controls the balance between the mid and side signals.



Feedback
Feedback controls how much of the effect will be fed into the feedback loop.

Amount
Amount controls the amount of the effect that will be mixed with the dry signal.

Comp/Expand
Comp/Expand controls if the dynamic processor will compress or expand the dynamic range.

Mode

Mode selects which preset will be used. Digital - A clean, standard delay. Lo-Fi - 8 bit with rate reduction. Memory - Influenced by the Memory Man delay. Pedal - Influenced by Boss DM-2 delay pedal. Plex - Influenced by Echo Plex tape delay. Ray - Influenced by TelRay tape delay. Space - Influenced by Roland Space Echo. Tape - A generic tape delay sound. Tube - A generic tube distortion. Punch - A puchy sound from dynamic expansion. Wide - Gets increasingly wider as the stereo widening feeds into the loop. Swarm - Hundreds of copies of the taps make a hugh swarm sound.

Character feedback

Character feedback this feedback is for the character page, it determins how much of the FX are fed into the feedback loop.

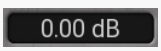
Delay feedback
Delay feedback controls the amount of signal that gets fed back in to the delay's input.

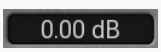
Width
Width offsets the delay in one channel to make the sound wider.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

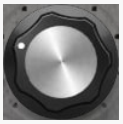
Envelope

Delay gain
Delay gain controls the volume of the delay signal.

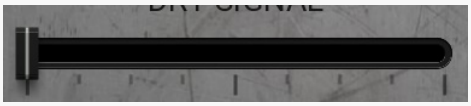
 **Delay gain**
Delay gain controls the volume of the delay signal.

 **Output gain**

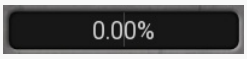
Output gain controls the final output volume of the plugin.

 **Dry/Wet**
Dry/Wet controls the mix of the delayed signal with the dry signal.

Shuffle
Shuffle simulates shuffling by offseting every other delay.

 **Dry signal**
Dry signal controls the level of the dry signal. This signal will not have any delay, but will still be processed by the effects.

Repeats
Repeats controls how long the tail of delays last. It is very similar to feedback, however it also changes some other processors such as filter and saturation.



Width
Width controls the amount of delay offset in one of the channels.

Panorama
Panorama controls the stereo position of the delay.

Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

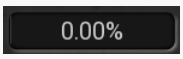
Length
Length controls the note value of the delay time, this is synced to the host tempo.

Delay
Delay controls the delay time.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

L/R Offset
L/R Offset offsets the phase of the LFO by 180 degrees in one channel.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.



Drive
Drive controls the filter distortion amount.

Rate
Rate controls the LFO frequency therefore the speed of the modulation.

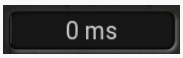
Length
Length controls the note value of the delay time, this is synced to the host tempo.

Type
Type selects the type of filter to be used.

Resonance
Resonance controls the amount of resonance in the filter.

Mod rate
Mod rate controls the speed of the vibrato.

Mid
Mid controls the gain of a mid peak EQ.



Mod depth
Mod depth controls the depth of the vibrato effect.

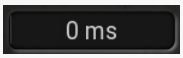
Mod shape
Mod shape selects the lfo shape for the vibrato.

High
High controls the gain of a high shelf EQ.

Low
Low controls the gain of a low shelf EQ.

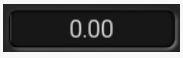
Copies
Copies selects how many duplicate grains there will be.

Duration
Duration controls the random delay time for the copied grains.

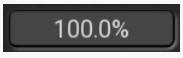


Pre-delay
Pre-delay controls the amount of time before the grains start.

Pitch
Pitch controls the pitch of the grains.



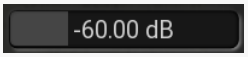
Random
Random controls the random pitch value for each grain.



Width
Width controls the random pan position of each grain.

Release shape
Release shape controls the curvature of the release shape.

Attack shape
Attack shape controls the the curvature of the attack shape.



Threshold off
Threshold off controls the maximum detection level for the envelope.

Threshold on
Threshold on controls the minimum detection level for the envelope.

Envelope
Envelope is a volume envelope that fades in and out the delay signal when it's level is within the thresholds.

Mode
Mode controls the type of saturation.

Drive

Drive controls the amount of saturation.

Frequency

Frequency controls the central frequency of the filter.

Range

Range controls the depth of modulation.

Grain size

Grain size controls the length of each grain.

Wet/Dry

Wet/Dry controls the mix of the granulated signal with the dry signal.

Release

Release controls the release time of the envelope.

Attack

Attack controls the attack time of the envelope.

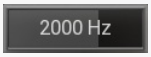
Fluid feedback

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.

Delay gain
Delay gain controls the volume of the delay signal.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.



Mid/High
Mid/High controls the crossover frequency that seperates the mid and high bands.

Low/Mid
Low/Mid controls the crossover frequency that seperates the low and mid bands.

High gain
High gain controls the volume of the high band.

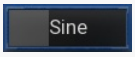
Mid gain
Mid gain controls the volume of the mid band.

Low gain
Low gain controls the volume of the low band.

Range
Range controls the depth of modulation.

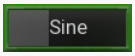
Range
Range controls the depth of modulation.

Range
Range controls the depth of modulation.



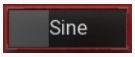
Shape
Shape selects the shape of the LFO.

Speed
Speed selects the note length of the LFO.

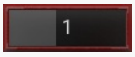


Shape
Shape selects the shape of the LFO.

Speed
Speed selects the note length of the LFO.



Shape
Shape selects the shape of the LFO.



Speed
Speed selects the note length of the LFO.

Width
Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.

Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Delay
Delay controls the delay time for the high band.

Width
Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.

Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Delay
Delay controls the delay time for the mid band.

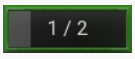
Width
Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.

Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

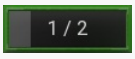
Delay
Delay controls the delay time for the low band.

Lag
Lag controls the amount of time before the feedback happens.

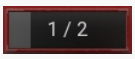
Lag
Lag controls the amount of time before the feedback happens.



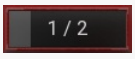
Lag
Lag controls the amount of time before the feedback happens.



Lag
Lag controls the amount of time before the feedback happens.



Lag
Lag controls the amount of time before the feedback happens.



Lag
Lag controls the amount of time before the feedback happens.

Mid
Mid controls the amount of high band signal that gets fed back in to the mid band input.

Low
Low controls the amount of high band signal that gets fed back in to the low band input.

High
High controls the amount of mid band signal that gets fed back in to the high band input.

Low
Low controls the amount of mid band signal that gets fed back in to the low band input.

High
High controls the amount of low band signal that gets fed back in to the high band input.

Mid
Mid controls the amount of low band signal that gets fed back in to the mid band input.

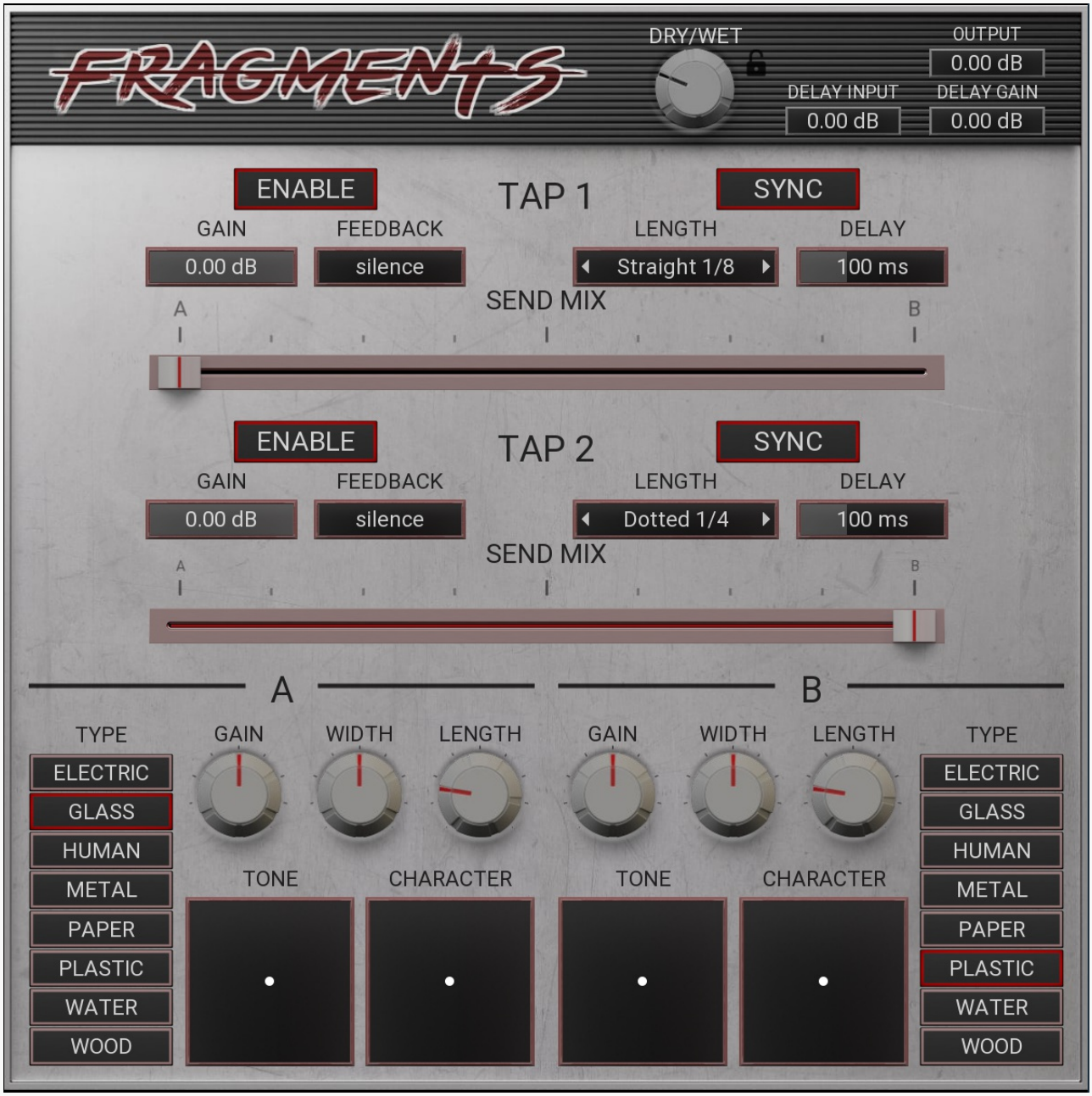
Feedback

Feedback controls the amount of high band signal that gets fed back in to the high band input.

Feedback
Feedback controls the amount of mid band signal that gets fed back in to the mid band input.

Feedback
Feedback controls the amount of low band signal that gets fed back in to the low band input.

Fragments

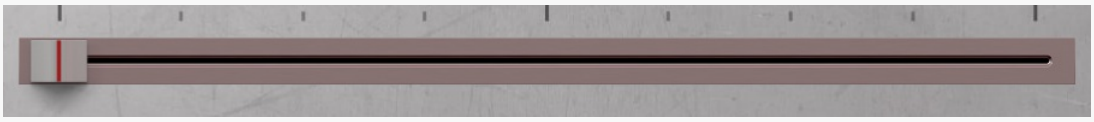


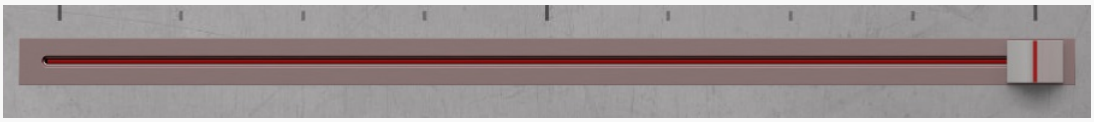
0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Output gain**
Output gain is the last thing in the signal chain and controld final output volume of the plugin.

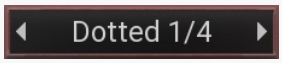
0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

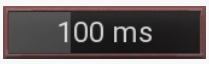
 **A/B**
A/B controls the balance of the delay's output being sent to convolution A or B.

 **A/B**
A/B controls the balance of the delay's output being sent to convolution A or B.

Length



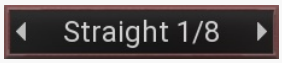
Length controls the note value of the delay time, this is synced to the host tempo.



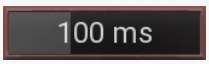
Delay
Delay controls the delay time.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Length



Length controls the note value of the delay time, this is synced to the host tempo.



Delay
Delay controls the delay time.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Length
Length shrinks or stretches the length of the impulse.

Width
Width controls the stereo widening of the convolution.

Gain
Gain controls the volume of the convolution.

Length
Length shrinks or stretches the length of the impulse.

Width

Width controls the stereo widening of the convolution.

Character

Character changes the pitch and balance between 2 impulses.

Tone

Tone uses an EQ to change the tone of the impulse.

Character

Character changes the pitch and balance between 2 impulses.

Tone

Tone uses an EQ to change the tone of the impulse.

Type

Type selects which impule texture will be used.

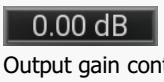
Type

Type selects which impule texture will be used.

Gain

Gain controls the volume of the convolution.

M-S convolver



Output gain

Output gain controls the final output volume of the plugin.

Delay gain
Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Type
Type selects the impulse used for the convolution.

Type
Type selects the impulse used for the convolution.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Delay
Delay controls the delay time.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Gain
Gain controls the output volume of the delay tap.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Delay
Delay controls the delay time.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

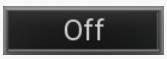
Gain
Gain controls the output volume of the delay tap.

Mid/Side
Mid/Side controls the balance of the delay's output being sent to convolution mid or side.

Mid/Side
Mid/Side controls the balance of the delay's output being sent to convolution mid or side.

HP

HP controls the frequency of the high-pass filter.



LP

LP controls the frequency of the low-pass filter.

Ducking

Ducking reduces the level of the delay when the dry signal is present. This is a great way to stop the delay from overwhelming the sound and lets it cut through a mix more clearly.

Saturation

Saturation controls the amount of distortion added to the signal.

Ducking

Ducking reduces the level of the delay when the dry signal is present. This is a great way to stop the delay from overwhelming the sound and lets it cut through a mix more clearly.

Saturation

Saturation controls the amount of distortion added to the signal.

HP

HP controls the frequency of the high-pass filter.

LP

LP controls the frequency of the low-pass filter.

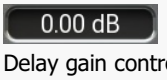
Convolve

Convolve controls the mix of the convoluted signal and the dry signal.

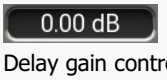
Convolve

Convolve controls the mix of the convoluted signal and the dry signal.

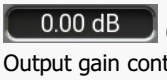
M-S focus



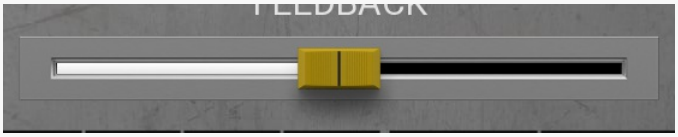
Delay gain
Delay gain controls the volume of the delay signal.



Delay gain
Delay gain controls the volume of the delay signal.



Output gain
Output gain controls the final output volume of the plugin.



Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Type
Type controls the note type of the delay time, this is synced to the host tempo.

Length
Length controls the note value of the delay time, this is synced to the host tempo.

Spread

Spread generates stereo content for the processing to work correctly. If you already have a wide stereo signal you can set this to 0%. If you have a mono or very narrow signal, you can set this to 100%. For most signals it sounds good at 50%.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Offset

Offset controls the balance of the delay offset in the mid and side channels. Turning the knob to the left will offset the delay times in the mid channel and to the right in the side channel.

Formant

Formant controls the balance of formant offset in the mid and side channels. Turning the knob to the left will offset the formants in the mid channel and to the right in the side channel.

Ping-pong

Ping-pong controls the balance of the ping-pong effect in the mid and side channels. Turning the knob to the left will increase the ping-pong effect in the mid channel and to the right in the side channel.

Blur

Blur controls the balance of spectral smearing in the mid and side channels. Turning the knob to the left will increase the amount of bluring in the mid channel and to the right in the side channel.

Filter

Filter controls the balance of the filter in the mid and side channels. Turning the knob to the left will add high-pass and low-pass filters in the mid channel and to the right in the side channel.

Feedback

Feedback controls the balance of the delay feedback in the mid and side channels. Turning the knob to the left will increase the feedback in the mid channel and to the right in the side channel.

Level

Level controls the balance of the delay output in the mid and side channels. Turning the knob to the left will make the delay louder in the mid channel and to the right will be louder in the side channel.

Multi-motion

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Output gain**
Output gain controls the final output volume of the plugin.

625 ms **Delay**
Delay controls the delay time.

Length

Dotted 1/4

Length controls the note value of the delay time, this is synced to the host tempo.

PING PONG **Ping Pong**
Ping Pong is a classic delay effect that alternates each delay from channel to channel.

Sync

Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Pan

Pan controls the stereo position of the delay.

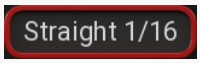
Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Delay

Delay controls the delay time.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

Ping Pong

Ping Pong is a classic delay effect that alternates each delay from channel to channel.

Sync

Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Pan

Pan controls the stereo position of the delay.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Dry/Wet

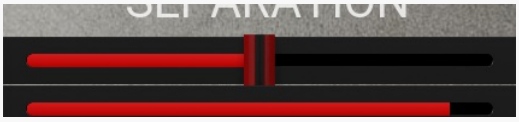
Dry/Wet controls the mix of the delayed signal with the dry signal.

Solo B

Solo B mutes delay A. This is useful, as it allows to more clearly hear how the crossover is splitting the sound.

Solo A

Solo A mutes delay B. This is useful, as it allows to more clearly hear how the crossover is splitting the sound.



Separation

Separation is the crossover that splits the signal into A and B. It works differently depending on which mode is used.

Mode

Mode selects how the signal will be split.
Frequency splits the signal by frequency. Frequencies below the crossover will be sent to delay A and above to delay B.
Level splits the signal by volume. The separation parameter acts as a threshold. Above the threshold is sent to delay B and below to delay A.
Panorama splits the signal by stereo position. Signal below the crossover will be considered left and sent to delay A and above will be right and sent to delay B.
Spectrum splits the signal bassed on how loud each frequency is. Louder frequencies are considered to be tonal and sent to delay B

and quiter are noise sent to delay A.

Speed
Speed controls the rate of modulation, this is measured in bars.

Random
Random controls the amount of randomness in the LFO shape.

Amount
Amount controls the depth of modulation.

Shape
Shape selects the shape of the LFO.

Space-time

Delay gain

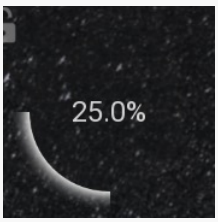
Delay gain controls the volume of the delay signal.

Output gain

Output gain controls the final output volume of the plugin.

Delay gain

Delay gain controls the volume of the delay signal.

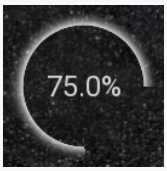


Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Saturation

Saturation controls the amount of distortion.

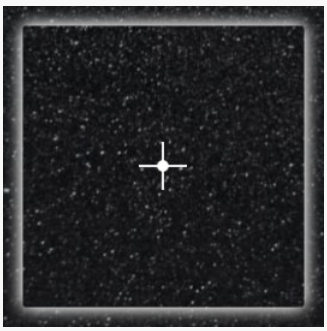


Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

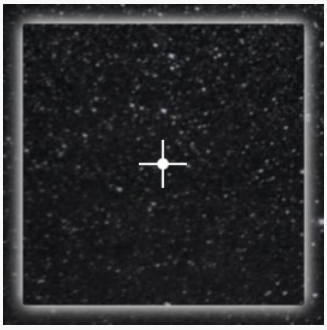
X

X controls the early/late balance of the reverb.



X

X controls the ping-pong for the delays.



X

X controls the frequency of a high-pass and low-pass filter.

X

X selects a sequence that modulates time.

X

X selects a sequence that modulates volume.

Delay gain

Delay gain controls the volume of the delay signal.

Output gain

Output gain controls the final output volume of the plugin.

Delay gain

Delay gain controls the volume of the delay signal.

Super pong

0.00 dB **Output gain**
Output gain controls the final output volume of the plugin.

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

Ducking
Ducking reduces the level of the delay when the dry signal is present. This is a great way to stop the delay from overwhelming the sound and lets it cut through a mix more clearly.

Exciter
Exciter is an expander and saturator for the lower and upper frequencies.

Tape

Tape controls the amount of the tape effect. It emulates delay drift, saturation and tone.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

LP

LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Speed

Speed selects how fast the ping pong effect will be. Normal, will be the same speed as the delay sync value. Half, will be double the delay value.

Mode

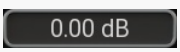
Mode selects the type of ping pong.

Standard is a classic ping pong effect that alternates from left to right with each delay.
Paradiddle is a special ping pong that uses a paradiddle pattern to alternate between left and right. The pattern is L R L L R L R R. This creates a more even stereo image, as classic ping pong can often sound louder on one side.

Offset
Offset creates an offset in one of the channels to make the sound wider. This uses the haas effect.

Ping/Pong
Ping/Pong controls the amount of the ping pong effect and decides if it will start on the right or left.

Tape



Delay gain
Delay gain controls the volume of the delay signal.

Output gain

Output gain controls the final output volume of the plugin.

Delay gain

Delay gain controls the volume of the delay signal.

Repeats

Repeats controls how long the tail of delays last. It is very similar to feedback, however it also changes some other processors such as filter and saturation.

Shuffle

Shuffle simulates shuffling by offseting every other delay.

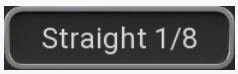
Ducking release

Ducking release controls how fast the ducked signal can return to normal volume.

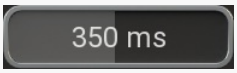
Ducking

Ducking reduces the level of the delay when the dry signal is present. This is a great way to stop the delay from overwhelming the sound and lets it cut through a mix more clearly.

Length

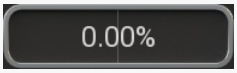


Length controls the note value of the delay time, this is synced to the host tempo.



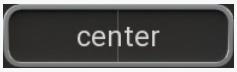
Delay

Delay controls the delay time.



Width

Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.



Panorama

Panorama controls the stereo position of the delay.

Ping/Pong

Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Sync

Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

High

High controls the gain of a high shelf EQ.

Mid
Mid controls the gain of a mid peak EQ.

Low
Low controls the gain of a low shelf EQ.

Color
Color selects the sound character of the tape.

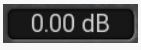
Age
Age controls the quality of the tape.

Wow & Flutter
Wow & Flutter controls the fluctuations of tape speed.

Drive
Drive controls the amount of tape saturation.

Thrower

Delay gain
Delay gain controls the volume of the delay signal.



Output gain
Output gain controls the final output volume of the plugin.

Delay gain
Delay gain controls the volume of the delay signal.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

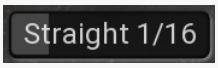
Length
Length controls the note value of the delay time, this is synced to the host tempo.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Length

Length controls the note value of the delay time, this is synced to the host tempo.



Length

Length controls the note value of the delay time, this is synced to the host tempo.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Phaser

Phaser controls the amont of the phaser effect.

Width

Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.

LP

LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Time manipulation

Time manipulation selects a special time modification.

Auto-pan

Auto-pan selects the rate of stereo modulation.

Type

Type selects if high-pass or low-pass filter will be used.

Position

Position selects it the filter will be placed before or after the delay.

Speed

Speed selects how fast the filter frequency will be modulated. **Fast** = 1 bar, **Slow** = 2 bars.

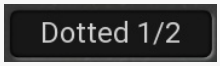
Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Hold

Hold controls how long the on/off will stay on each time it is triggered.

Interval



Interval controls the speed at which the on/off is triggered.

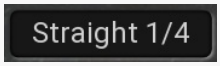
On/Off
On/Off switches the delay output on and off.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Hold

Hold controls how long the on/off will stay on each time it is triggered.

Interval

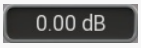


Interval controls the speed at which the on/off is triggered.

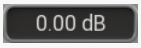
On/Off
On/Off switches the delay output on and off.

Time machine

Delay gain
Delay gain controls the volume of the delay signal.



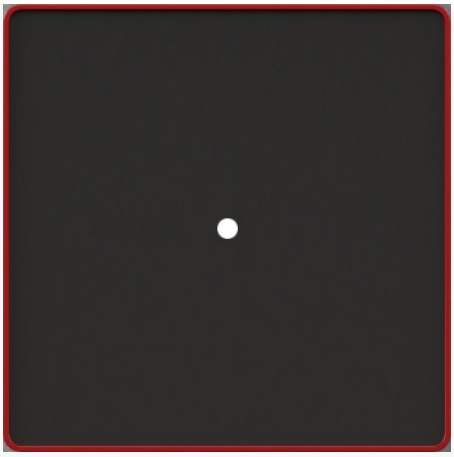
Delay gain
Delay gain controls the volume of the delay signal.



Output gain
Output gain controls the final output volume of the plugin.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Mode
Mode
Tape = Tape delay emulation. Modulation of the delay parameter creates pitch shifts as whith slowing down or speeding up tape playback speed. Tape saturatin, Wow & Flutter and vintage shelf EQ.
Modern = High quality transparant dealy. Has ping/pong and shuffle/swing, minimum phase peak EQ and wave shaping.
Spectral = Advanced spectral delay. Change pitch delay time and feedback individually for each frequency, has a new sound!



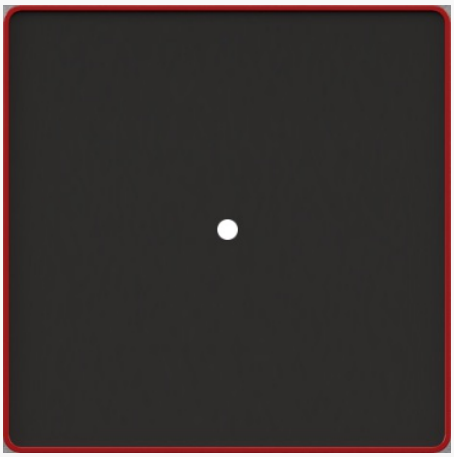
Character

Character

Tape = Wow and Flutter, creates a warm chorus trype sound. Helps to soften/defuse the delays when using higher feedback values.
X = Modulation speed. **Y** = Modulation amount.

Modern = Introduces swing and ping pong to create variations in the delays.
X = Ping/Pong left or right. **Y** = Shuffle/Swing.

Spectral = Spectral morphing of pitch and delay time.
X = Offsets delay time for low or high frequencies. **Y** = Increaces or decreases pitch with each delay.



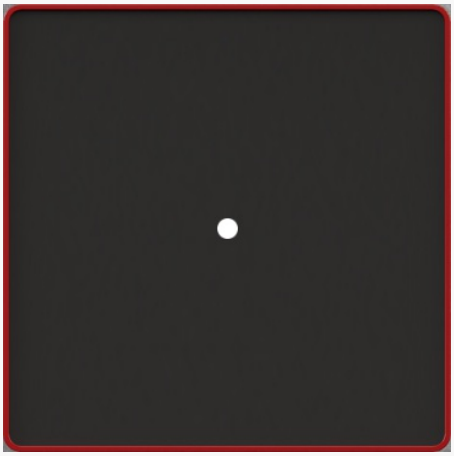
High EQ

High EQ

Tape = Warm analog shelf EQ inside the feedback loop, simulates tape and increases in brilliance as the feedback increases.
X = Frequency, **Y** = Gain

Modern = Transparant minimum phase EQ, post feedback allows feedback to be changed without changing the EQ.
X = Frequency, **Y** = Gain

Spectral = Spectral feedback, that has inividual feedback values for each frequency.
X = Central Frequency, **Y**= Feedback Level



Low EQ

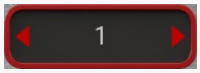
Low EQ

Tape = Warm analog shelf EQ inside the feedback loop, simulates tape and increases in brilliance as the feedback increases.
X = Frequency, **Y** = Gain

Modern = Transparant minimum phase EQ, post feedback allows feedback to be changed without changing the EQ.
X = Frequency, **Y** = Gain

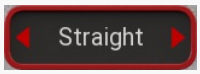
Spectral = Spectral feedback, that has inividual feedback values for each frequency.
X = Central Frequency, **Y**= Feedback Level

Count



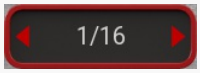
Count selects a value that the delay value wil be multiplied by.

Type



Type selects the note type of the delay time, this is synced to the host tempo.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

Delay
Delay controls the delay time.

Saturation
Saturation
Tape = Emulates tape saturation,
Modern = Gain compensadted wave shaping, for smooth saturation.
Spectral = Polyphonic saturation, gives musical results by only saturating the harmonics in your audio.

Width
Width
Tape = Creates pitch variation between channels, making a double tracked type effect.
Modern = Offsets the delay in one channel to create a Haas effect.
Spectral = Multiband spectral stereo widening.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Top & bottom

Delay gain
Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Intesity
Intesity controls how quickly each band fades into the next one. It's similar to the Slope parameter used with analog crossovers.

Speed
Speed controls the speed of the level follower. This can be used to control how quickly levels will rise/fall above/bellow the threshold.

Crossover

Crossover controls the threshold for the dynamic split. Levels above the threshold will be sent to the top delay nad bellow the threshold to the bottom delay.

Solo Bottom

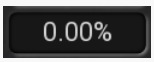
Solo Bottom allows you to hear only the bottom delay. This is useful for setting the crossover settings.

Solo Top

Solo Top allows you to hear only the top delay. This is useful for setting the crossover settings.

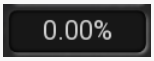
Reverb

Reverb controls the amount of reverb.



Chorus

Chorus controls the amount of chorus.



Saturation

Saturation controls the amount of distortion.

Formant

Formant controls the formant of the delay signal.

Frequency

Frequency controls the frequency shift of the delay signal.

Pitch

Pitch controls the pitch of the delay signal, this is measured in semitones.

Reverb

Reverb controls the amount of reverb.

Chorus

Chorus controls the amount of chorus.

Saturation

Saturation controls the amount of distortion.

Formant

Formant controls the formant of the delay signal.

Frequency

Frequency controls the frequency shift of the delay signal.

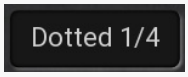
Pitch

Pitch controls the pitch of the delay signal, this is measured in semitones.

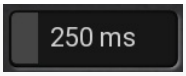
Sync

Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Length



Length controls the note value of the delay time, this is synced to the host tempo.



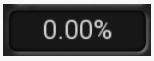
Delay
Delay controls the delay time.

Frequency
Frequency controls the central frequency at which the feedback will be at its highest.

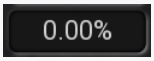
Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Gain
Gain controls the volume of the delay.

Reverb
Reverb controls the amount of reverb.



Chorus
Chorus controls the amount of chorus.



Saturation
Saturation controls the amount of distortion.

Formant
Formant controls the formant of the delay signal.

Frequency
Frequency controls the frequency shift of the delay signal.

Pitch
Pitch controls the pitch of the delay signal, this is measured in semitones.

Reverb
Reverb controls the amount of reverb.

Chorus
Chorus controls the amount of chorus.

Saturation
Saturation controls the amount of distortion.

Formant
Formant controls the formant of the delay signal.

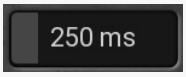
Frequency
Frequency controls the frequency shift of the delay signal.

Pitch
Pitch controls the pitch of the delay signal, this is measured in semitones.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Length

Length controls the note value of the delay time, this is synced to the host tempo.



Delay
Delay controls the delay time.

Frequency
Frequency controls the central frequency at which the feedback will be at its highest.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

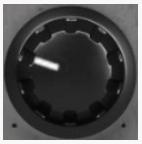
Gain
Gain controls the volume of the delay.

Unison

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

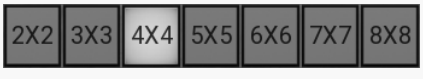
0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Output gain**
Output gain controls the final output volume of the plugin.

 **Dry/Wet**
Dry/Wet controls the mix of the delayed signal with the dry signal.

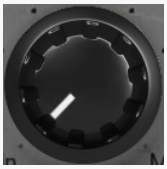
Type
Type controls the note type of the delay time, this is synced to the host tempo.

Length
Length controls the note value of the delay time, this is synced to the host tempo.



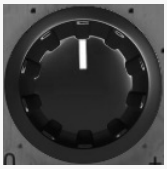
Voices

Voices selects how many delay taps and unison voices there will be. 8X8 means there will be 8 delay voices multiplied by 8 unison voices making a total of 64 voices. This is displayed in the panels.



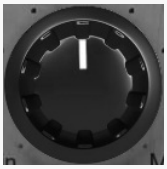
Wash

Wash is a multi effect that is great for risers and transitions.



Duck/Match

Duck/Match is a very special control. Negative values duck the delay signal when the dry signal is present. Positive values match the amplitude of the unison signal to the dry delay signal.

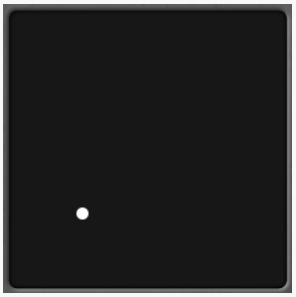


Modulation

Modulation controls the amount of modulation in the unison voices. There is visual representation of the modulation displayed in the panels.

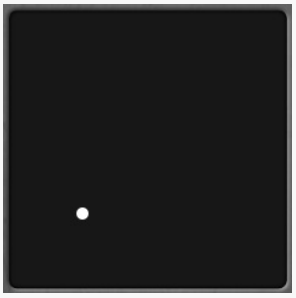
Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.



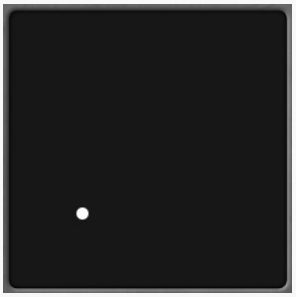
X

X controls the range of the filter values for the delay voices. Y controls the range of the formant values for the unison voices.



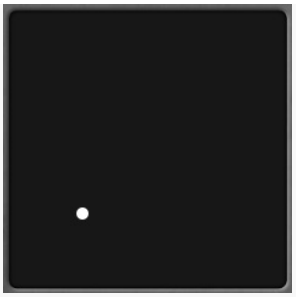
X

X controls the range of the pitch values for the delay voices. Y controls the range of the pitch values for the unison voices.



X

X controls the range of the panorama values for the delay voices. Y controls the range of the panorama values for the unison voices.



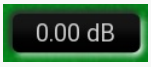
X

X controls the range of the delay values for the delay voices. Y controls the range of the delay values for the unison voices.

Alien voices

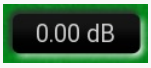
Delay gain

Delay gain controls the volume of the delay signal.



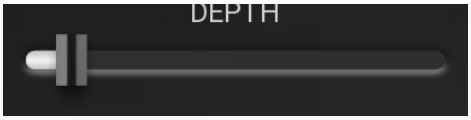
Delay gain

Delay gain controls the volume of the delay signal.



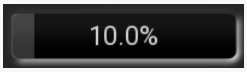
Output gain

Output gain controls the final output volume of the plugin.



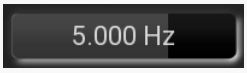
Depth

Depth controls the amount of vibrato.



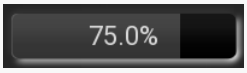
Tremolo

Tremolo controls the deth of tremolo in the vibrato.



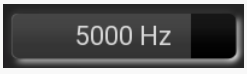
Rate

Rate controls the speed of the vibrato.



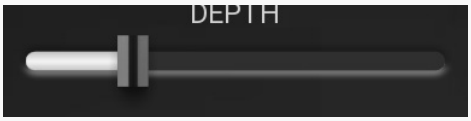
Harmonics

Harmonics changes the shape of the LFO which creates additional harmonics.



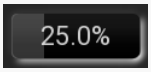
Frequency

Frequency controls the frequency of the ring modulator.



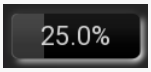
Depth

Depth controls the amount of ring modulation.



Character

Character controls the distribution of higher harmonics.

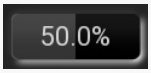


Drive

Drive controls the amount of distortion.

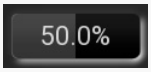
Formant

Formant controls the formant of the unison voices.



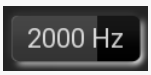
Dry/Wet

Dry/Wet controls the balance of the unsison voices with the dry signal.



Resonance

Resonance controls the filter resonance.



Frequency

Frequency controls the filter frequency.

Type

Type selects what type of distortion will be used.

Voices

Voices selects the number of generated voices for the unison.

Type

Type selects the type of filter to be used.

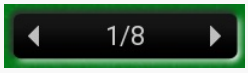
Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

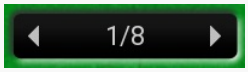
Multiplier

Multiplier Takes the delay time and multiplies it by the selected value.

Shift

Shift controls the frequency for the frequency shifter.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

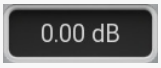
Multiplier

Multiplier Takes the delay time and multiplies it by the selected value.

Shift

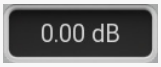
Shift controls the frequency for the frequency shifter.

Chimes



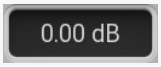
Delay gain

Delay gain controls the volume of the delay signal.



Delay gain

Delay gain controls the volume of the delay signal.

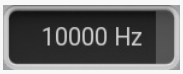


Output gain

Output gain controls the final output volume of the plugin.

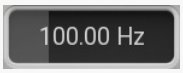
Shape

Shape selects the LFO shape for the ring modulator.



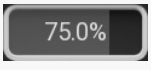
LP

LP controls the frequency of the low-pass filter.



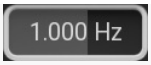
HP

HP controls the frequency of the high-pass filter.

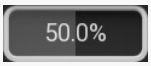


Stepped

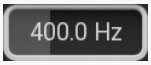
Stepped controls the smoothness of the transition from left to right. Higher values will make the effect suddenly jump from side to side.



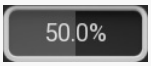
Speed
Speed controls the LFO rate for the autopan.



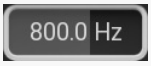
Feedback
Feedback controls the feedback level of the comb filter.



Frequency
Frequency controls the frequency of the comb filter.



Feedback
Feedback controls the feedback level of the comb filter.



Frequency
Frequency controls the frequency of the comb filter.

Gain
Gain controls the level of the comb filter.

Gain
Gain controls the level of the comb filter.

Depth
Depth controls the amount of autopan.

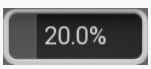
Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Drive
Drive controls the amount of distortion.

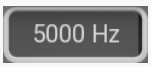
Regeneration
Regeneration controls the number of additional delay taps that will be generated.

Shape
Shape selects the LFO shape for the ring modulator.

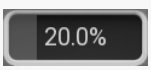
Shape
Shape selects the LFO shape for the ring modulator.



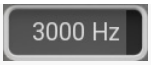
Ring - Depth
Ring - Depth controls the amount of the ring modulation.



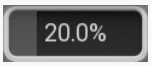
Ring - Freq
Ring - Freq controls the frequency of the ring modulator.



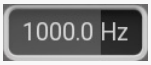
Ring - Depth
Ring - Depth controls the amount of the ring modulation.



Ring - Freq
Ring - Freq controls the frequency of the ring modulator.



Ring - Depth
Ring - Depth controls the amount of the ring modulation.



Ring - Freq
Ring - Freq controls the frequency of the ring modulator.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Level
Level controls the volume of the delay signal.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

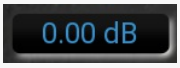
Level
Level controls the volume of the delay signal.

Length

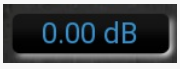
Length controls the note value of the delay time, this is synced to the host tempo.

Level
Level controls the volume of the delay signal.

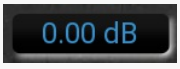
Digital chant



Delay gain
Delay gain controls the volume of the delay signal.

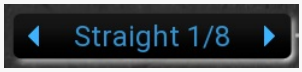


Delay gain
Delay gain controls the volume of the delay signal.



Output gain
Output gain controls the final output volume of the plugin.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Feedback

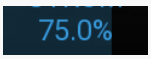
Feedback controls the amount of signal that gets fed back in to the delay's input.

Octave

Octave selects which octave the harmonized signal will be.

Transpose

Transpose controls the pitch of the harmonized signal, measured in semitones.



Strumming

Strumming controls the delay offset of the harmonizer signal.

Dry/Wet

Dry/Wet controls the balance of the harmonizer signal and the dry signal.

Decay

Decay controls the amount of time it takes for the reverb to decay.

Size

Size controls the room size for the reveb.

Predelay

Predelay controls the amount of preday for the reverb.

Early/Late

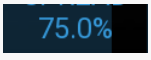
Early/Late controls the balance of the early and late reflections.

Dry/Wet

Dry/Wet controls the balance of the reverb signal with the dry signal.

Delay

Delay controls the amount of predelay used for the chorus voices.



Spread

Spread controls how the chorus voices will be distributed over the stereo feild.

Voices

Voices selects how many aditional voices will be used for the chorus.

Rate

Rate controls the speed of the chorus modulation.

Dry/Wet

Dry/Wet controls the balance of the chorus signal with the dry signal.

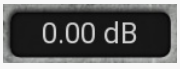
Dry/Wet

Dry/Wet controls the balance of the distorted signal with the dry signal.

Alpha, Beta, Delta, Gamma, Theta

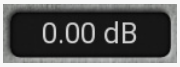
Alpha, Beta, Delta, Gamma, Theta control the levels for different types of distortion.

Dirt texture



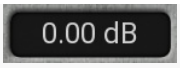
Delay gain

Delay gain controls the volume of the delay signal.



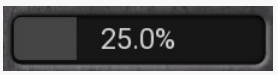
Delay gain

Delay gain controls the volume of the delay signal.

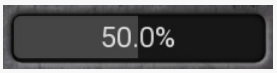


Output gain
Output gain controls the final output volume of the plugin.

Threshold
Threshold controls the minimum level that the noise will be added.



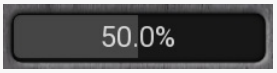
Tone
Tone controls the frequencies used in the high and low pass filters.



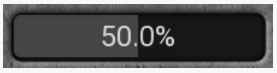
Tone
Tone controls the level of the higher frequencies.

Dry/Wet
Dry/Wet controls the balance of the distortion signal with the dry signal.

Resonance
Resonance controls the amount of resonance used in the high and low pass filters.

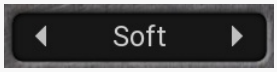


Harmonics
Harmonics controls the level of the even harmonics.



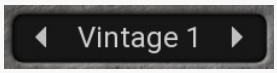
Character
Character controls the distribution of higher harmonics.

Type



Type selects the type of saturation to be used.

Type

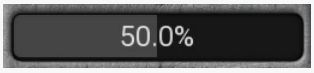


Type selects which type of distortion will be used.

Depth
Depth controls the amount of noise that is added to the signal.

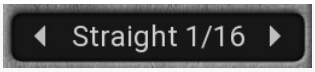
Drive
Drive controls the amount of saturation.

Drive
Drive controls the amount of distortion.



Dampening
Dampening defines the absorption of the high frequencies caused by air and the room walls.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

Delay/Reverb

Delay/Reverb controls the balance of the delay and reverb signals.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Decay

Decay controls the amount of time for the reverb signal to decay.

Width

Width controls the delay offset for the left and right channels.

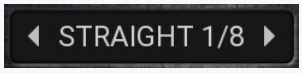
Dystopia

Delay gain
Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

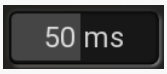
Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

HP
HP controls the frequency of the high-pass filter.

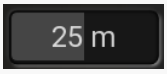
LP
LP controls the frequency of the low-pass filter.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Pan
Pan controls the amount of panorama modulation.



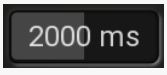
Grain size
Grain size controls the length of each individual grain.



Size
Size controls the room size of the reverb.

Pitch
Pitch controls the pitch range, therefore the depth of modulation.

Transpose
Transpose controls the pitch of the granular, measured in semitones.



Time
Timecontrols the length of the reverb.

Speed
Speed controls the rate of modulation.

Dry/Wet
Dry/Wet controls the mix of the granular signal with the dry signal.

Dry/Wet
Dry/Wet controls the balance of the reverb signal with the dry signal.

Gain

Gain controls the level of the comb filter.

Gain

Gain controls the level of the comb filter.

Gain

Gain controls the level of the comb filter.

X

X controls the frequency of the comb filter.

X

X controls the frequency of the comb filter.

X

X controls the frequency of the comb filter.

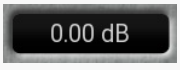
Early reflections

Delay gain

Delay gain controls the volume of the delay signal.

Delay gain

Delay gain controls the volume of the delay signal.



Output gain

Output gain controls the final output volume of the plugin.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Low

Low controls the gain of a low shelf EQ.

HP

HP controls the frequency of the high-pass filter.

LP

LP controls the frequency of the low-pass filter.

High

High controls the gain of a high shelf EQ.

Mid

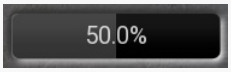
Mid controls the gain of a mid peak EQ.

Mono

Mono switches the delay signal into mono.

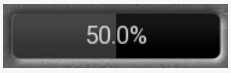
Material

Material selects the character of the resonance.



Stereo depth

Stereo depth controls how much stereo widening there will be.

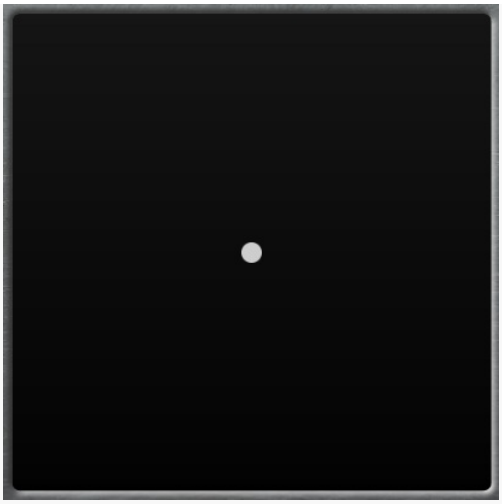


Complexity

Complexity controls the density of the resonator.

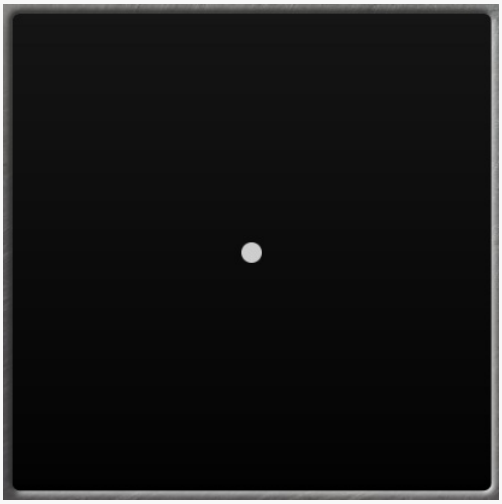
Absorbtion

Absorbtion controls the amount of dampening in the resonator.



Left/Right

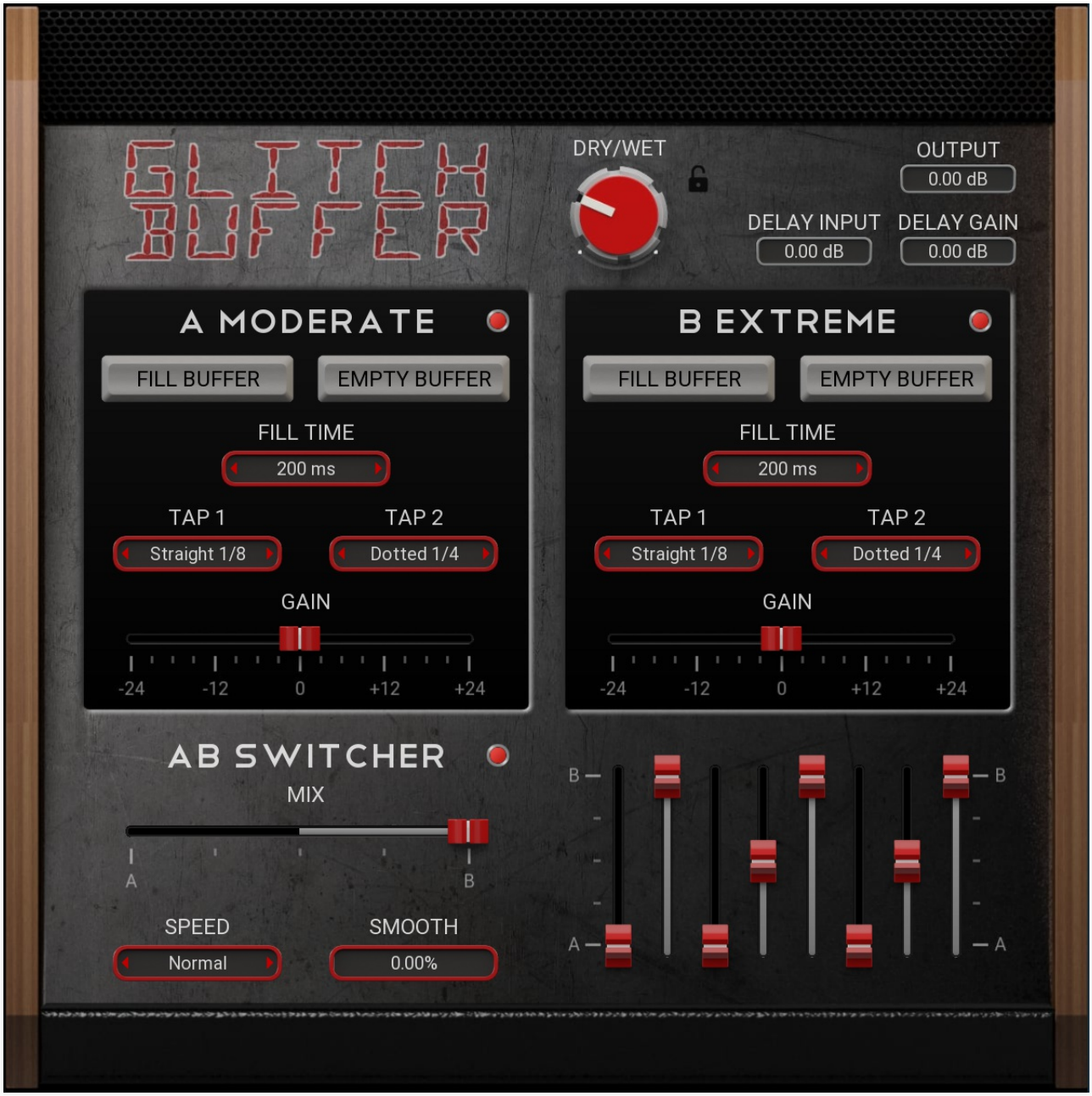
Left/Right controls the panorama of the delay.



Length

Length controls the timings for the delay and resonator.

Glitch buffer



0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Output gain**
Output gain controls the final output volume of the plugin.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

0.00% **Smoothness**
Smoothness controls the smoothness between min and max values. If this parameter is set to 0% the the modulation will suddenly jump between min and max.

Speed

Normal

Speed controls the rate of modulation.

A/B

A/B is a visual representation of the modulation from the A/B Switcher. If the A/B Switcher is disabled, then this parameter can control the mix of buffer A and B.

A/B Switcher

A/B Switcher uses a step sequencer to modulate between delay buffer A and B.

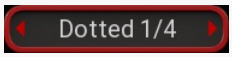
Fill time

Fill time controls how long the "Fill buffer" parameter will be recording until it automatically stope.

Gain

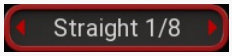
Gain controls the level of the delay signal.

Tap 2 length



Tap 2 length controls the note value of the delay time, this is synced to the host tempo. In this example it decides at what rate the recorded audio will repeat.

Tap 1 length



Tap 1 length controls the note value of the delay time, this is synced to the host tempo. In this example it decides at what rate the recorded audio will repeat.

Empty buffer

Empty buffer clears the recorded audio, so you can capture a new take.

Fill buffer

Fill buffer switches on recording of the dry signal, it automatically switches off. This recorded audio is then repeated and becomes the delay.

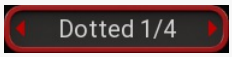
Fill time

Fill time controls how long the "Fill buffer" parameter will be recording until it automatically stope.

Gain

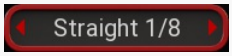
Gain controls the level of the delay signal.

Tap 2 length



Tap 2 length controls the note value of the delay time, this is synced to the host tempo. In this example it decides at what rate the recorded audio will repeat.

Tap 1 length



Tap 1 length controls the note value of the delay time, this is synced to the host tempo. In this example it decides at what rate the recorded audio will repeat.

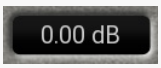
Empty buffer

Empty buffer clears the recorded audio, so you can capture a new take.

Fill buffer

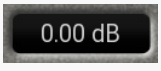
Fill buffer switches on recording of the dry signal, it automatically switches off. This recorded audio is then repeated and becomes the delay.

Hippie



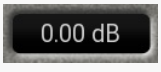
Delay gain

Delay gain controls the volume of the delay signal.



Delay gain

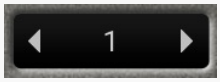
Delay gain controls the volume of the delay signal.



Output gain

Output gain controls the final output volume of the plugin.

Multiplier



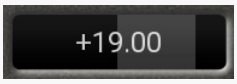
Multiplier takes the delay value and multiplies it by the paramiter value.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

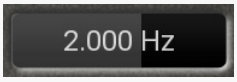


Pitch
Pitch controls the pitch of the granular, it is measured in semitones.

Dry/Wet
Dry/Wet controls the mix of the granular signal with the dry signal.

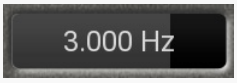
Time
Time controls the length of the reverb.

Dry/Wet
Dry/Wet controls the mix of the reverb signal with the dry signal.



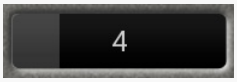
Speed
Speed controls the rate of the phaser.

Depth
Depth controls the mix of the phaser signal with the dry signal.



Speed
Speed controls the rate of the vibrato.

Depth
Depth controls the amount of vibrato.



Speed
Speed selects the sync rate of the flanger.

Depth

Depth controls the mix of the flanger signal with the dry signal.

Mega mod

0.00 dB **Delay gain**

Delay gain controls the volume of the delay signal.

0.00 dB **Delay gain**

Delay gain controls the volume of the delay signal.

0.00 dB **Output gain**

Output gain controls the final output volume of the plugin.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Pitch
Pitch controls the pitch of the delays, measured in semitones.

Delay freq
Delay freq controls how the delay times are distibuted accross the frequency spectrum.

Pan freq
Pan freq controls how the panorama positions are distributed accross the frequency spectrum.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

FB freq
FB freq controls how the feedback values are distibuted accross the frequency spectrum.

Gain
Gain controls the level of the delay.

Drive
Drive controls the amount of tape saturation.

Delay mod
Delay mod modifies the delay length value.

Pan
Pan controls the stereo position of the delay.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Filter
Filter controls the frequency of the high and low pass filters. Negative values are low-pass and posotive values are high-pass.

Gain
Gain controls the level of the delay.

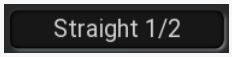
Tape/Spectral
Tape/Spectral controls the mix of the 2 delay types.

Modulation
Modulation randomizes the values of all parameters in the **Mod depth**, **Mod speed** and **Mod shape**

Values

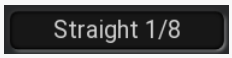
Values randomizes the values of all parameters in the **Tape delay** and **Spectral delay**

Length



Length controls the note value of the delay time, this is synced to the host tempo.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

Mod shape

Mod shape controls the modulation shape for each of the controls in the **Spectral delay**

Mod speed

Mod speed controls the modulation speed for each of the controls in the **Spectral delay**

Mod depth

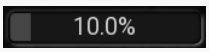
Mod depth controls the modulation depth for each of the controls in the **Spectral delay**

Mod shape

Mod shape controls the modulation shape for each of the controls in the **Tape delay**

Mod speed

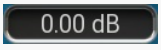
Mod speed controls the modulation speed for each of the controls in the **Tape delay**



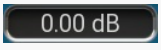
Mod depth

Mod depth controls the modulation depth for each of the controls in the **Tape delay**

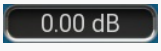
Nebula



Delay gain
Delay gain controls the volume of the delay signal.



Delay gain
Delay gain controls the volume of the delay signal.



Output gain
Output gain controls the final output volume of the plugin.

Mod rate
Mod rate controls the speed of the vibrato.

Mod depth
Mod depth controls the amount of vibrato.

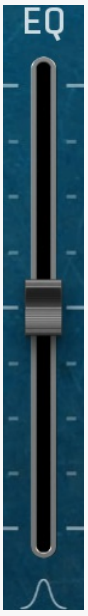
Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Density

Density controls the number of generated grains.

Freeze

Freeze stops receiving input grains and only uses the current ones.

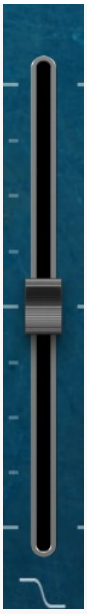


Mid

Mid controls the gain of a mid peak EQ.

High

High controls the gain of a high shelf EQ.



Low

Low controls the gain of a low shelf EQ.

Echo time

Echo time controls the time of the delay.

Width

Width randomizes the panorama position of the grains.

Length

Length controls the delay length between grains.

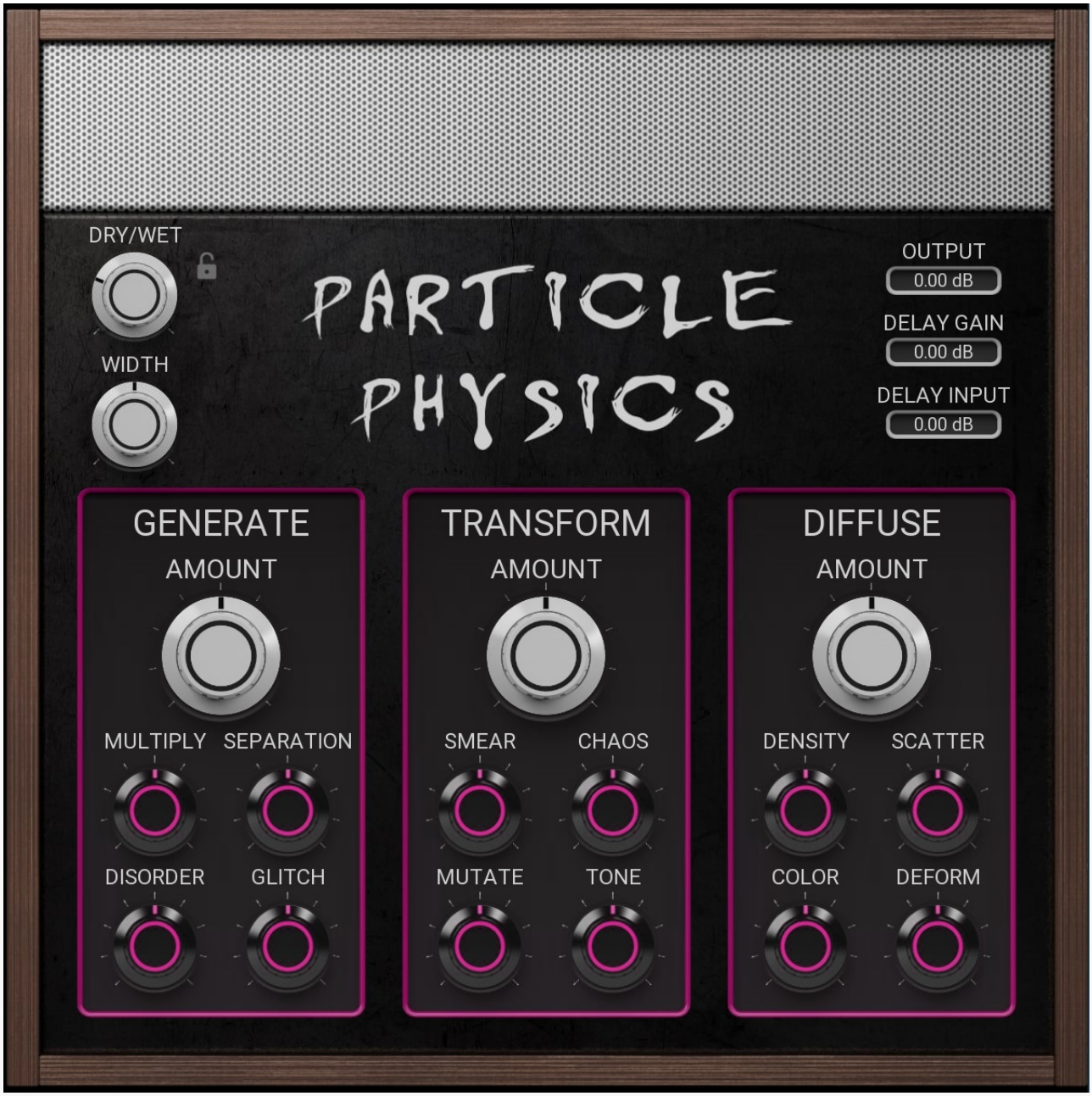
Size

Size controls the length of each grain.

Pitch

Pitch controls the pitch of the grains, measured in semitones.

Particle physics



Delay gain
Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.

Deform
Deform skews the timing of the diffusion taps.

Color
Color controls the frequency distibution of the diffusion taps.

Scatter
Scatter controls the arrangement of the diffusion taps.

Density
Density controls the number of diffusion taps for the particles.

Amount
Amount controls the mix between the diffused particles and non diffused particles.

Tone
Tone controls the formant of the particles.

Mutate
Mutate controls the amount of spectral feedback.

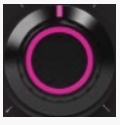
Chaos
Chaos conrols the amount of randomization of each individual frequency.

Smear
Smear controls how much the input time is slowed. With 100% the input spectrum gets completely frozen.

Amount
Amount controls the mix of the transformed particles with the non transformed particles.

Width
Width controls the amount widening for the particles.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

 **Glitch**
Glitch randomizes the size of the particles.

Disorder
Disorder controls the delay randomness for the particles.

Multiply
Multiply controls the amount of additional particles that are generated.

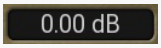
Amount

Amount controls the mix of generated particles with the dry signal.

Resonator

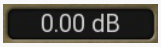
Delay gain

Delay gain controls the volume of the delay signal.



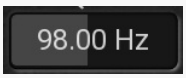
Delay gain

Delay gain controls the volume of the delay signal.



Output gain

Output gain is the last thing in the signal chain and controld final output volume of the plugin.



Frequency

Frequency controls the frequency of the resonator.

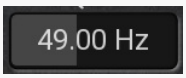
Gain
Gain controls the volume of the resonator.

Feedback
Feedback controls the amount of signal that gets fed back in to the resonator input.

Frequency
Frequency controls the frequency of the resonator.

Gain
Gain controls the volume of the resonator.

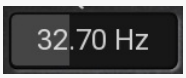
Feedback
Feedback controls the amount of signal that gets fed back in to the resonator input.



Frequency
Frequency controls the frequency of the resonator.

Gain
Gain controls the volume of the resonator.

Feedback
Feedback controls the amount of signal that gets fed back in to the resonator input.

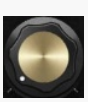


Frequency
Frequency controls the frequency of the resonator.

Gain
Gain controls the volume of the resonator.

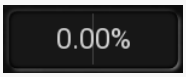
Feedback
Feedback controls the amount of signal that gets fed back in to the resonator input.

Shuffle
Shuffle simulates shuffling by offseting every other delay.

 **Dry**
Dry controls the level of the non delayed signal, this is still processed by the resonator.

Panorama

Panorama controls the stereo position of the delay.

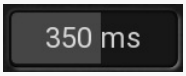


Width

Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.

Length

Length controls the note value of the delay time, this is synced to the host tempo.



Delay

Delay controls the delay time.

Ping pong

Ping pong is a classic delay effect that alternates each delay from channel to channel.

Sync

Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

LP

LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Low

Low controls the gain of a low shelf EQ.

High

High controls the gain of a high shelf EQ.

Mid

Mid controls the gain of a mid peak EQ.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Mode

Mode selects the type of resonator to be used.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Shape shifter

Delay gain
Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Delay
Delay controls the delay time.

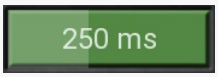
Length

Length controls the note value of the delay time, this is synced to the host tempo.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Distortion delay
Distortion delay is a delay with a distortion inside the feedback loop.
Dry/Wet controls the mix of the distortion signal with the delay signal.
X/Y Pad bellow, controls the character of the distortion.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.



Delay
Delay controls the delay time.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Filter delay
Filter delay is a delay with a filter inside the feedback loop.
Dry/Wet controls the mix of the filtered signal with the delay signal.
X/Y Pad bellow, controls the character of the filter.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

Delay
Delay controls the delay time.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

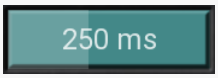
Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Reverb delay

Reverb delay is a delay with a reverb inside the feedback loop.
Dry/Wet controls the mix of the reverb signal with the delay signal.
X/Y Pad above, controls the character of the reverb.

Sync

Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.



Delay

Delay controls the delay time.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Stereo delay

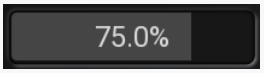
Stereo delay is a delay with a stereo widener and autopan inside the feedback loop.
Dry/Wet controls the mix of the stereo signal with the delay signal.
X/Y Pad above, controls the character of the stereo effects..

Stretch & shrink

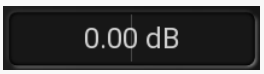
Delay gain
Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.



Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.



Gain
Gain controls the volume of the delay.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Shrink Stetch
Shrink Stetch selects if the delay time will speed up or slow down. Stretch modulates from min to max, Shrink modulates from max to

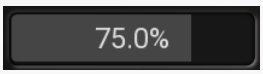
min.

Time Pitch
Time Pitch selects if the delay modulation will affect pitch also.

Min
Min sets the minimum delay value for the modulation.

Max
Max sets the maximum delay value for the modulation.

Speed
Speed selects how long it takes the modulation to go from min to max (or max to min) this is measured in number of bars.



Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

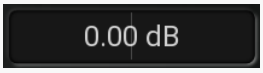
Shrink Stetch
Shrink Stetch selects if the delay time will speed up or slow down. Stretch modulates from min to max, Shrink modulates from max to min.

Time Pitch
Time Pitch selects if the delay modulation will affect pitch also.

Min
Min sets the minimum delay value for the modulation.

Max
Max sets the maximum delay value for the modulation.

Speed
Speed selects how long it takes the modulation to go from min to max (or max to min) this is measured in number of bars.



Gain
Gain controls the volume of the delay.

HP
HP controls the frequency of the high-pass filter.

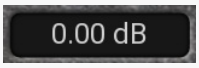
LP
LP controls the frequency of the low-pass filter.

Saturation
Saturation controls the amount of saturation on the delay signal.

Width

Width pans Tap 1 left and Tap 2 right. Both taps are in ping pong mode.

Twisted

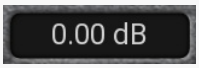


Delay gain

Delay gain controls the volume of the delay signal.

Delay gain

Delay gain controls the volume of the delay signal.



Output gain

Output gain is the last thing in the signal chain and controld final output volume of the plugin.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Feedback

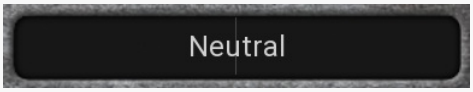
Feedback controls the amount of signal that gets fed back in to the delay's input.

Attack

Attack controls the attack level of the transient shaper.

Decay

Decay controls the number of taps.



Color

Color controls the filter frequencies of the taps.

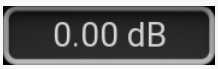
Rate

Rate controls the delay tap times.

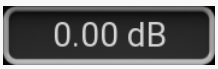
Width

Width controls the stereo position of the taps.

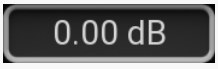
Upsurge



Delay gain
Delay gain controls the volume of the delay signal.



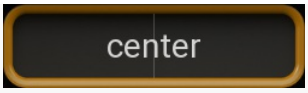
Delay gain
Delay gain controls the volume of the delay signal.



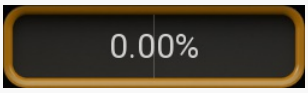
Output gain
Output gain is the last thing in the signal chain and controld final output volume of the plugin.

Dry signal
Dry signal controls the level of the non delay signal, this is still processed by the upsurge effect.

Shuffle
Shuffle simulates shuffling by offseting every other delay.



Panorama
Panorama controls the stereo position of the delay.



Width
Width creates an offset in one of the channels to make the sound wider. This uses the haas effect.

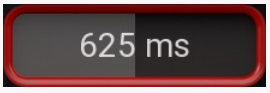
Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Length
Length controls the length of the reverse reverb.

Density
Density controls the density of the reverse reverb.

Size
Size controls the room size of the reverse reverb.

Decay
Decay controls the speed of the decay of the reverse reverb.

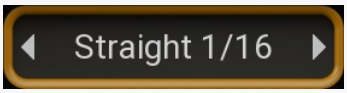


Dry delay
Dry delay controls the delay time of the delay signal that is not effected by the reverse reverb.

Dry
Dry activates a deley that is not effected by the reverse reverb.

Repeats
Repeats controls how long the tail of delays last. It is very similar to feedback, however it also changes some other processors such as filter and saturation.

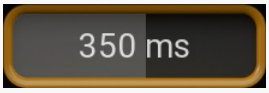
Length



Length controls the note value of the delay time, this is synced to the host tempo.

Sync

Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.



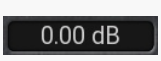
Delay

Delay controls the delay time.

Ping/Pong

Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Loaded



Delay gain

Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.

Reverb
Reverb controls the amount of reverb for each tap.

Randomize will create random values for all the taps.

Double
Double controls the double speed of each tap.

Randomize will create random values for all the taps.

Distortion
Distortion controls the amount of distortion for each tap.

Randomize will create random values for all the taps.

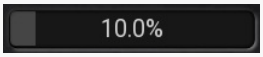
Reso
Reso controls the filter resonance of each tap.

Randomize will create random values for all the taps.

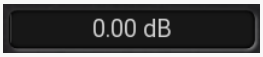
Level
Level controls the volume of each tap.

Randomize will create random values for all the taps.

Color
Color controls the sound character of the reveb.

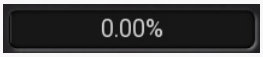


Color
Color controls the sound character of the distortion.



Gain
Gain controls the central gain of the filter.

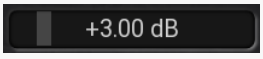
Character
Character controls how the filter sounds, this is different for each filter type.



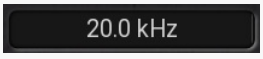
Modulation
Modulation controls the modulation amount of the filter frequencies.

Type
Type selects the filter type.

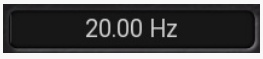
Size
Size controls the length and room size of the reverb.



Drive
Drive controls the amount of distortion.



Max frequency
Max frequency controls the maximum frequency of the filter.



Min frequency
Min frequency controls the minimum frequency of the filter.

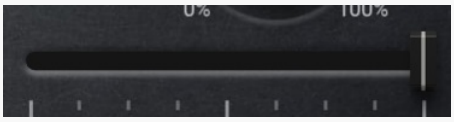
Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Repeats

Repeats selects the number of taps.

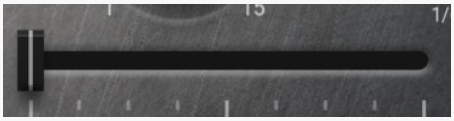
Length

Length controls the note value of the delay time, this is synced to the host tempo.



LP

LP controls the frequency of the low-pass filter.



HP

HP controls the frequency of the high-pass filter.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Frequency

Frequency controls the filter frequency of each tap.

Randomize will create random values for all the taps.

Stepped / Continuous

Stepped / Continuous button lets you switch between 2 editor modes - stepped, which resembles the vintage analog gear by providing only a limit set of values, and continuous, which is traditional for digital user interfaces. There is absolutely no difference in sound, however for some people it is easier to have limited set of options to choose from, hence they prefer stepped mode. Others enjoy the full capacity of the digital processing, hence they prefer continuous mode.

Oh boy

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Output gain**
Output gain controls the final output volume of the plugin.

High-shelf frequency
High-shelf frequency controls the frequency at which the higher frequencies will be reduced.

High-shelf cut
High-shelf cut controls the amount that the higher frequencies will be reduced to lessen the harshness of the distortion.

Color
Color controls the sound character of the distortion.

Gain
Gain controls the central gain of the filter.

Q
Q controls the filter resonance.

Type
Type selects the type of filter to be used.

Drive
Drive controls the amount of distortion.

Frequency
Frequency controls the frequency of the filter.

Pan
Pan controls the stereo position of the delay.

Level
Level controls the volume of the delay.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Delay
Delay controls the delay time.

High-shelf frequency
High-shelf frequency controls the frequency at which the higher frequencies will be reduced.

High-shelf cut
High-shelf cut controls the amount that the higher frequencies will be reduced to lessen the harshness of the distortion.

Color
Color controls the sound character of the distortion.

Gain
Gain controls the central gain of the filter.

Q
Q controls the filter resonance.

Type
Type selects the type of filter to be used.

Drive
Drive controls the amount of distortion.

Frequency
Frequency controls the frequency of the filter.

Pan
Pan controls the stereo position of the delay.

Level
Level controls the volume of the delay.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Delay
Delay controls the delay time.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

Delay
Delay controls the delay time of the tap.

Level
Level controls the volume of the tap.

Delay
Delay controls the delay time of the tap.

Level
Level controls the volume of the tap.

Delay
Delay controls the delay time of the tap.

Level
Level controls the volume of the tap.

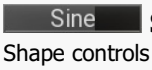
Balance
Balance controls the output of the tap. -100% sends the signal to delay 1, 100% sends the signal to delay 2 and 0% sends an equal amount to both delays.

Balance
Balance controls the output of the tap. -100% sends the signal to delay 1, 100% sends the signal to delay 2 and 0% sends an equal amount to both delays.

Balance
Balance controls the output of the tap. -100% sends the signal to delay 1, 100% sends the signal to delay 2 and 0% sends an equal amount to both delays.

Depth
Depth controls the modulation amount for the modulatable parameters.

Speed
Speed controls the rate for the modulatable parameters.



Shape
Shape controls the LFO shape for the modulatable parameters.

Order & chaos

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Output gain**
Output gain controls the final output volume of the plugin.

Taps
Taps selects the number of delay taps.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

LP
LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Ducking

Ducking reduces the level of the delay when the dry signal is present. This is a great way to stop the delay from overwhelming the sound and lets it cut through a mix more clearly.

Reverb

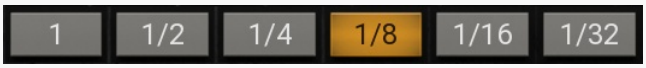
Reverb controls the mix between the reverb signal and the dry signal.

Saturation

Saturation controls the amount of distortion.

Type

Type controls the note type of the delay time, this is synced to the host tempo.



Length

Length controls the note value of the delay time, this is synced to the host tempo.

Random

Random sets random level values for all the taps.

Pan

Pan controls the stereo position for each tap.

Random creates random values for all taps.

Filter

Filter controls the filter frequency for each tap. Positive values are high-pass and negative values are low-pass.

Random creates random values for all taps.

Time

Time modifies the delay times for each tap.

Variate creates a small random change for all taps. This is good for adding some subtle movement to the sound.

Random creates random values for all taps.

Feedback

Feedback controls the amount of feedback for each tap.

Random creates random values for all taps.

Tabbed

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Delay gain**
Delay gain controls the volume of the delay signal.

0.00 dB **Output gain**
Output gain controls the final output volume of the plugin.

Dry/Wet
Dry/Wet controls the mix of the delayed signal with the dry signal.

200 ms **Auto-swell**
Auto-swell controls the time it takes for the delay signal to fade in.

Auto-swell
Auto-swell controls the time it takes for the delay signal to fade in.

Mod rate

Mod rate controls the speed of vibrato.

Mod depth

Mod depth controls the amount of vibrato.

High

High controls the gain of a high shelf EQ.

Mid

Mid controls the gain of a mid peak EQ.

Low

Low controls the gain of a low shelf EQ.

Style

Style selects the sound character of the delay.

Output

Output controls the volume of the delay tap.

Output

Output controls the volume of the delay tap.

Output

Output controls the volume of the delay tap.

Output

Output controls the volume of the delay tap.

Output
Output controls the volume of the delay tap.

Output
Output controls the volume of the delay tap.

Output
Output controls the volume of the delay tap.

Output
Output controls the volume of the delay tap.

Pan
Pan controls the stereo position of the delay.

Pan
Pan controls the stereo position of the delay.

Pan
Pan controls the stereo position of the delay.

Pan
Pan controls the stereo position of the delay.

Pan
Pan controls the stereo position of the delay.

Pan
Pan controls the stereo position of the delay.

Pan
Pan controls the stereo position of the delay.

Pan
Pan controls the stereo position of the delay.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

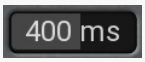
Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

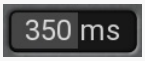
Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

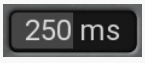
Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

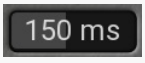
 **Delay**
Delay controls the delay time.

 **Delay**
Delay controls the delay time.

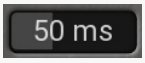
Delay
Delay controls the delay time.

 **Delay**
Delay controls the delay time.

Delay
Delay controls the delay time.

 **Delay**
Delay controls the delay time.

Delay
Delay controls the delay time.

 **Delay**
Delay controls the delay time.

Tap my pitch up

Delay gain

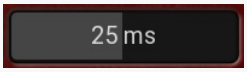
Delay gain controls the volume of the delay signal.

Delay gain

Delay gain controls the volume of the delay signal.

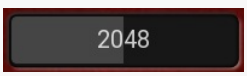
Output gain

Output gain controls the final output volume of the plugin.



Resolution

Resolution defines how accurately the processor can analyze the audio. The lower the resolution, the more CPU is needed, but also more of the time domain characteristics are preserved, hence potentially higher audio quality.



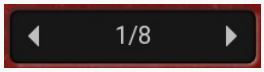
Buffer size

Buffer size controls the block size used for processing. This plugin performs processing in the so-called spectral domain. This allows it to access features that are normally unavailable, however in order to do that it requires the audio to be separated into blocks of audio. As a result, the plugin causes latency. This setting controls the latency length. Additionally, the higher it is the more detail the plugin has, which usually provides higher audio quality (but this is not always the case!), at the expense of greater CPU cost and increased latency. Also note that with some settings having too high a buffer size will produce a sort of time-smearing, ambient-like sound quality. Also note that this value is assigned only for sampling rates around 44-48KHz, the engine may readjust it for higher sampling rates in order to get similar audio results.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

LP

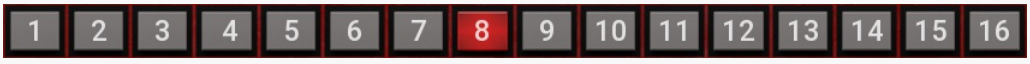
LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.



Taps

Taps selects the number of delay taps.

Pitch

Pitch controls the pitch of each delay tap, this is measured in semitones.

Randomize creates random values for all taps.

Formant

Formant controls the formant of each delay tap.

Randomize creates random values for all taps.

Frequency

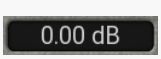
Frequency controls the frequency shift of each delay tap.

Randomize creates random values for all taps.

Level
Level controls the volume of each delay tap.

Stepped / Continuous
Stepped / Continuous button lets you switch between 2 editor modes - stepped, which resembles the vintage analog gear by providing only a limit set of values, and continuous, which is traditional for digital user interfaces. There is absolutely no difference in sound, however for some people it is easier to have limited set of options to choose from, hence they prefer stepped mode. Others enjoy the full capacity of the digital processing, hence they prefer continuous mode.

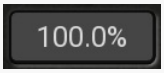
Liquid Time



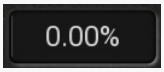
Delay gain
Delay gain controls the volume of the delay signal.

Delay gain
Delay gain controls the volume of the delay signal.

Output gain
Output gain controls the final output volume of the plugin.



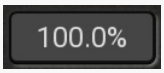
Max
Max controls the maximum value of the modulation range.



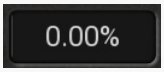
Min
Min controls the minimum value of the modulation range.

Rate
Rate selects the speed of the LFO, measured in bars.

Shape
Shape selects the shape of the LFO.



Max
Max controls the maximum value of the modulation range.

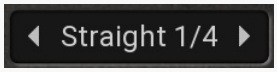


Min
Min controls the minimum value of the modulation range.

Rate
Rate selects the speed of the LFO, measured in bars.

Shape
Shape selects the shape of the LFO.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

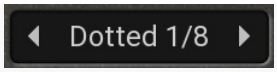
LP
LP controls the frequency of the low-pass filter.

HP
HP controls the frequency of the high-pass filter.

Ping/Pong
Ping/Pong controls the amount of the ping pong effect and decides if it will start on the right or left.

Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

LP

LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Ping/Pong

Ping/Pong controls the amount of the ping pong effect and decides if it will start on the right or left.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Length

Length controls the note value of the delay time, this is synced to the host tempo.

LP

LP controls the frequency of the low-pass filter.

HP

HP controls the frequency of the high-pass filter.

Ping/Pong

Ping/Pong controls the amount of the ping pong effect and decides if it will start on the right or left.

Feedback

Feedback controls the amount of signal that gets fed back in to the delay's input.

Mode

Mode selects which time bassed effect will be used. Please note that there must be audio playing before selecting freeze mode, or it will feeze silence. If you wish to re freeze, you must select a different mode and the select freeze again.

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

Buffer feedback

Buffer feedback controls the amount of output from the buffer that will be fed back into the buffer input. This is a synced feedback and

the length is determined by **Buffer length**

Order

Order selects which order the taps will be triggered.

Type

Type selects the speed of the time bassed effect.

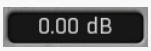
Buffer length

Buffer length selects the length of time the buffer will fill until it starts playback.

Oktafon

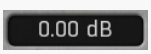
Delay gain

Delay gain controls the volume of the delay signal.



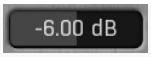
Delay gain

Delay gain controls the volume of the delay signal.



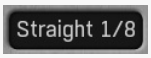
Output gain

Output gain controls the final output volume of the plugin.



Feedback
Feedback controls the level of signal fed back into the delay.

Length



Length controls the note value of the delay time, this is synced to the host tempo.

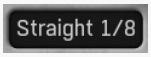
Loop
Loop places all the pitch voices inside the feedback loop. This means that the pich values progressivly increace with each delay. It can be used to make rising or falling pitch and reverb type effects.

Length
Length controls the note value of the delay time, this is synced to the host tempo.

Ping/Pong
Ping/Pong is a classic delay effect that alternates each delay from channel to channel.

Sync
Sync activates sync mode where the delay time will be in musical values and synced to the host tempo.

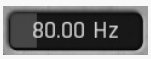
Length



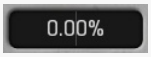
Length controls the note value of the delay time, this is synced to the host tempo.

Multiply

Multiply selects multiples of the delay length.



HPF
HPF controls the frequency of the high-pass filter. It is inside the feedback chain, therefore the effect of the filter becomes more prominent with each delay.



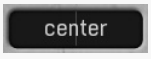
Shuffle
Shuffle simulates shuffling by offseting every other delay.

LPF
LPF controls the frequency of the low-pass filter. It is inside the feedback chain, therefore the effect of the filter becomes more prominent with each delay.

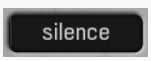
Feedback
Feedback controls the amount of signal that gets fed back in to the delay's input.

Delay
Delay controls the level of the deley signal.

Pitch
Pitch controls the pitch shift for the voice. When "Chromatic" scale is set, then the Pitch shift happens in semitones. When any other scale is set, the pitch will shift to the nearest availible note from the selected scale.

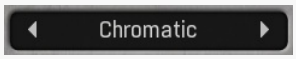


Pan
Pan controls the stereo position of the delay and dry signals.



Dry
Dry controls the level of non-delayed signal. This signal is still effected by the pitch shift.

Scale



Scale selects from various scales to quantize the pitch values to.

Key

Key selects the root note for the selected scale. Note, this has no effect when in chromatic mode.

Single/Unison mode

Single/Unison mode **Single** is the default mode with 1 voice per delay tap. **Unison** clones each voice and detunes them to create a rich wide chorus effect.

Analog/Modern mode

Analog/Modern mode **Analog Tape** Simulates inaccuracies found in analog devices and subtle saturation. **Modern Digital** Crystal clear delays and stable pitch

Dry/Wet

Dry/Wet controls the mix of the delayed signal with the dry signal.

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.