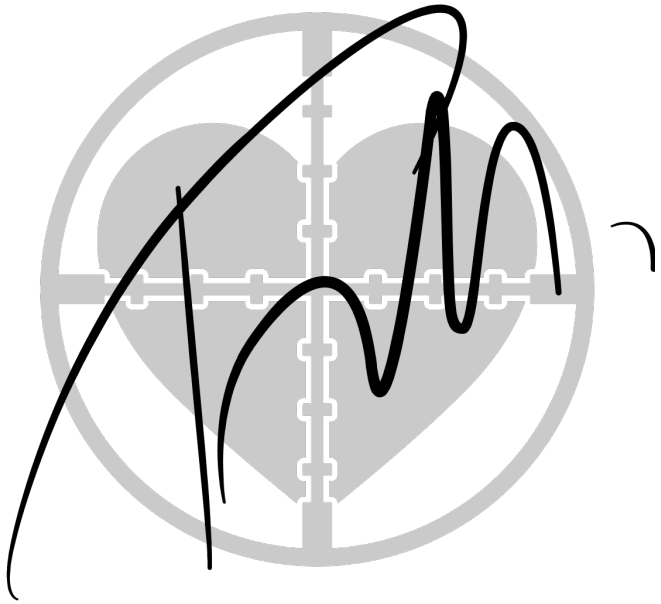
Archetype: Tom Morello

1.0.0 for Windows and macOS



INTRODUCTION

Tom Morello's guitar playing in *Rage Against the Machine* immediately positioned him as a modern guitar legend.

His innovative techniques defied the definition of what a guitar virtuoso should be. Combining guitar tones and effects with unprecedented creativity, Tom spearheaded a fusion of Classic Rock, Punk, and Hip-Hop unlike anything the world had ever seen, while simultaneously writing era-defining riffs for both *RATM* and *Audioslave*.

Rage Against the Machine's live shows were incendiary both musically and also for their unapologetically-held political message. Morello has also brought his considerable guitar talents to several projects outside of *RATM*, including *Street Sweeper Social Club*, *The Nightwatchman*, *Prophets of Rage*, and *Audioslave* as well as forming the non-profit social justice organization Axis of Justice alongside *System of a Down* frontman Serj Tankian.

In a 1993 live review, Melody Maker remarked "*Morello wears his guitar high up to wring every sound out of it. Falling bombs, police sirens, scratching - he can do them all.*" A new type of guitar hero was born.

We proudly present you the **Archetype: Tom Morello**.

BASIC REQUIREMENTS

To start using Neural DSP plugins you will need:

- A computer capable of multitrack audio processing, Mac or PC.
- An audio interface.
- Supported host software (***DAW***) for recording.
- An iLok User ID and the latest version of the iLok License Manager application.
- A Neural DSP Account.

Important: You don't need an iLok USB dongle to use our products since you can activate them directly into your computer.

SUPPORTED OPERATING SYSTEMS

Latest OS compatibility for Windows & Mac, including Native Apple Silicon.

Windows 10 - 11 (64-bit)
OS X 11 - 13 (64-bit)

SUPPORTED HOST SOFTWARES

In order to use Neural DSP software in plugin form, you will need a Digital Audio Workstation. We officially support the following software to host our plugins (64-bit only):

Pro Tools 2022 or later (macOS & Windows): AAX Native
Logic Pro X 10.7 or later - (macOS): AU
Cubase 12 (macOS & Windows): VST2 - VST3
Ableton Live 10 or later (macOS & Windows): AU, VST2 & VST3
Reaper 6 or later (macOS & Windows): AU, VST2 & VST3
Studio One 4 or later (macOS & Windows): AU, VST2 & VST3
FL Studio 20 (macOS & Windows): VST2 & VST3
Reason 11 (macOS & Windows): VST2 & VST3
Cakewalk by Bandlab (Windows): VST2 & VST3

A standalone version (64-bit only) is also included, which does not require any additional software.

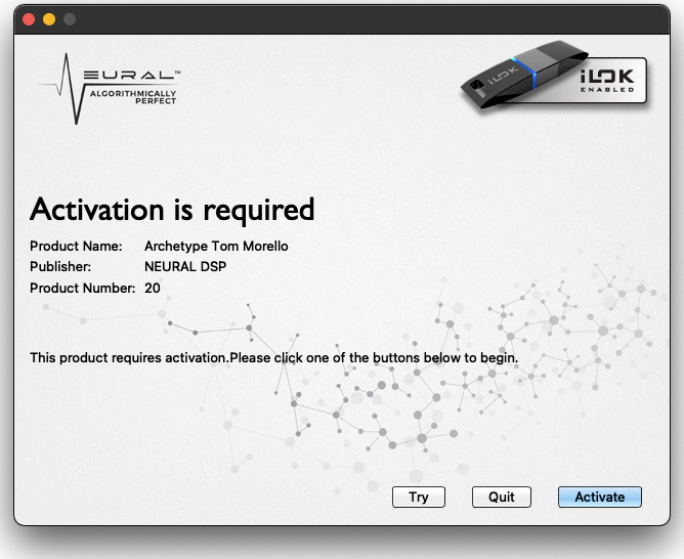
Support is offered for these operating systems and software platforms. Our plugins may work on another DAW of your choice, feel free to download the Demo and try for yourself (*Please check that your host software is compatible with your operating system first*).

For more information, check our FAQ page here:
https://support.neuraldsp.com/help

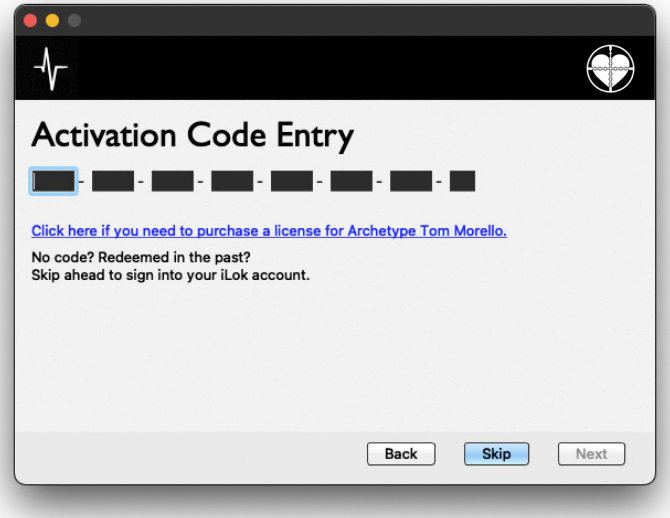
iLOK USER ID AND iLOK LICENSE MANAGER

DEMO PRODUCT ACTIVATION

Right after the setup installation, you will see an activation window. Click on the "**Try**" button. If you don't see that button, close and reopen the plugin/standalone app.



If you don't have an iLok account, you can create one right here:



At this point, the iLok License Manager software will be installed on your computer... and that's it! Notice that your trial will expire after 14 days.

FULL PRODUCT ACTIVATION

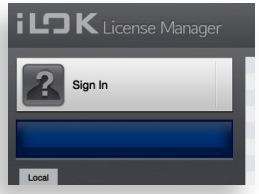
Note that Neural DSP and iLok are different accounts. Full licenses for Neural DSP products are delivered directly to your iLok account. Make sure your **iLok account** is created and **linked** to your Neural DSP account before purchasing.

- Make sure you have the latest **iLok License Manager** app installed and running (https://www.ilok.com/#!license-manager).
- Login with your iLok account. If you don't have an **iLok account**, you can create one right here: https://www.ilok.com/#!registration

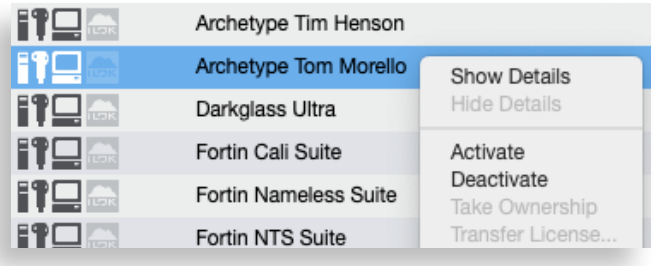
To get a full license for any of our products, go to our website, click on a plugin you want, select "**add to cart**" and complete the steps for purchasing. After the checkout, the license will be deposited directly to your iLok account.

After that, please follow the following steps:

- Make sure you have the latest iLok License Manager application installed and running (https://www.ilok.com/#!license-manager).
- Log in with your iLok account in iLok License Manager.



- After that, go to the "**All Licenses**" tab on top, right-click on the license and select "**Activate**".



- Install the plugin by running the installer (https://neuraldsp.com/downloads/).
- Rescan your plugins within your DAW, then restart your DAW.
- You can run the standalone version as well.

FILE LOCATIONS

Neural DSP plugins will be installed in the appropriate default location for each plugin format (VST, VST3, AAX, AU) unless a different custom location is selected in the process.

MacOS

AU: *Macintosh HD / Library / Audio / Plug-ins / Components /*
VST2: *Macintosh HD / Library / Audio / Plug-ins / VST /*
VST3: *Macintosh HD / Library / Audio / Plug-ins / VST3 /*
AAX: *Macintosh HD / Library / Application Support / Avid / Audio / Plug-ins /*
Standalone App: *Macintosh HD / Applications / Neural DSP /*
Preset Files: *MacintoshHD / Library / Audio / Presets / Neural DSP / Archetype Tom Morello /*
Manual: *Macintosh HD / Library / Application Support / Neural DSP / Archetype Tom Morello /*

Windows

64-bit VST: *C:/ Program Files / VSTPlugins /*
64-bit VST3: *C:/ Program Files / Common Files / VST3 /*
64-bit AAX: *C:/ Program Files / Common Files / Avid / Audio / Plug-Ins /*
64-bit Standalone: *C:/ Program Files / Neural DSP /*
Preset Files: *C:/ ProgramData / Neural DSP / Archetype Tom Morello*
Manual: *C:/ Program Files / Neural DSP /*

Archetype Tom Morello is available in 64-bit only.

UNINSTALLING NEURAL DSP SOFTWARE

To uninstall the product in macOS, delete the files manually from the respective plugin format folders.

For Windows, you can uninstall the files by running the regular uninstaller at the Control Panel or by running the setup installer file again and clicking on “Remove”.

PLUGIN SECTIONS

VIRTUAL DEVICES LIST

- DIVE BOMB Pedal
- 2-Channel Amplifier
- WHAM-1 Pedal
- WAH Pedal
- DELAY-1 Pedal
- EQUALIZER Pedal
- PHASER Pedal
- Cabsim Block
- 9-band EQ
- DELAY-2 Pedal
- REVERB Pedal

DIVE BOMB SECTION

DIVE BOMB Pedal

EXPRESSION PEDAL: Controls the speed of the glide effect. Moving it up (toe down) increases the glide speed while moving it down (toe up) decreases it.
MODE SWITCH: Click to toggle between the following two modes:

- **UP:** The signal is pitched up from -12 semitones to the current input note.
- **DOWN:** The signal is pitched down from the input note to -12 semitones.

BYPASS STOMP SWITCH: Click to bypass/enable the Dive Bomb section.

AMP SECTION

MASTER CONTROLS

PRESENCE KNOB: High-frequency boost.
VOLUME KNOB: Controls the overall output level of the amplifier.
REVERB KNOB: Spring reverb mix control.

BOOST CHANNEL CONTROLS

BASS/MIDDLE/TREBLE KNOBS: Tonestack of the Boost Channel. 3-Band EQ.
VOLUME KNOB: Controls the loudness level of the Boost Channel.
GAIN KNOB: Controls the amount of gain of the Boost Channel.

BOOST CHANNEL LED: Shines red when the Boost Channel is active. Click to toggle between Boost and Normal channels (*Inactive channel controls are greyed out*).

NORMAL CHANNEL CONTROLS

BASS/TREBLE KNOBS: Tonestack of the Normal Channel. 2-Band EQ.
VOLUME KNOB: Controls the loudness of the Normal Channel.

POWER/STANDBY SWITCHES (linked): Click to bypass/enable the amplifier section.

AMP FX LOOP SECTION 1

The devices in this section are connected to the FX Loop of the amplifier. In real amplifiers, the FX Loop allows the insertion of devices after the preamp circuit but before the power amp.

WHAM-1 Pedal

EXPRESSION PEDAL: Pitch control. Moving it up and down changes the pitch bending. This goes in accordance with the settings on the display.
MODE SELECTOR: Click to toggle between the following two modes:

- **WHAM:** Sets the pitch range from -24 to +24 semitones. Use the BLEND knob to control the pitched signal mix.
- **DETUNE:** Sets the pitch range to +/- 100 cents (semitone). The BLEND value is determined by the expression pedal position. Moving it up (toe down) increases the BLEND value up to 50% wet, while moving it down (toe up) decreases it.

DISPLAY CONTROLS

BLEND KNOB (Wham Mode): Mixes pitched and direct input signals. Turning the knob clockwise will increase the pitched signal level and decrease the direct input signal.
HEEL PITCH SHIFT (Wham Mode): Determines the maximum pitch value while moving the expression pedal down (+/-24 semitones).
TOE PITCH SHIFT (Wham Mode): Determines the maximum pitch value while moving the expression pedal up (+/-24 semitones).
CENTS SHIFT (Detune Mode): Pitch control (+/- 100 cents).

BYPASS STOMP SWITCH: Click to turn the device on/off.

WAH Pedal

EXPRESSION PEDAL: Adjusts the peak response of the frequency filter up and down.
ACTIVE SWITCH: Click to activate/deactivate the Wah pedal.

AMP FX LOOP SECTION 2

The devices in this section are connected to the FX Loop of the amplifier. In real amplifiers, the FX Loop allows the insertion of devices after the preamp circuit but before the power amp.

DELAY-1 Pedal

MIX KNOB: Controls the amount of delay effect that is added to the original dry input signal.
TIME KNOB: Determines the delay time, ranging from 50ms to 1000ms.
FEEDBACK KNOB: Sets the amount of delay returned to the input of the delay line. The higher the settings, the more repeats.
BYPASS STOMP SWITCH: Click to turn on/off the device.

EQUALIZER Pedal

LEVEL SLIDER: Level control (+/- 18dB).
EQ BANDS: Bank of seven control sliders used to boost or cut frequency bands.
BYPASS STOMP SWITCH: Click to turn the device on/off.

PHASER Pedal

SPEED KNOB: Controls the overall effect rate. This effect filters the signal by creating a series of peaks and troughs in the frequency spectrum. Increase it in order to make it faster.
BYPASS STOMP SWITCH: Click to turn on/off the device.

CAB SECTION

The cabinet section features 10 different microphones with a range of different positions.

IR LOADER SELECTOR BOX: Drop down menu for selecting factory microphones, speakers, or loading your own IR files. The folder path will be saved, allowing the ability to navigate through your IRs by using the navigation arrows on either side of the menu.

POSITION KNOB: Controls the position of the microphone between the center and the edge of the speaker cone (***Disabled when loading external IR files***).

DISTANCE KNOB: Controls the distance between the microphone and the cone (***Disabled when loading external IR files***).

MIC LEVEL KNOB: Controls the level of the selected IR file.

PAN KNOB: Controls the output panning of the selected IR file.

ON/OFF BUTTON (ROOM): Disables or enables the room microphone.

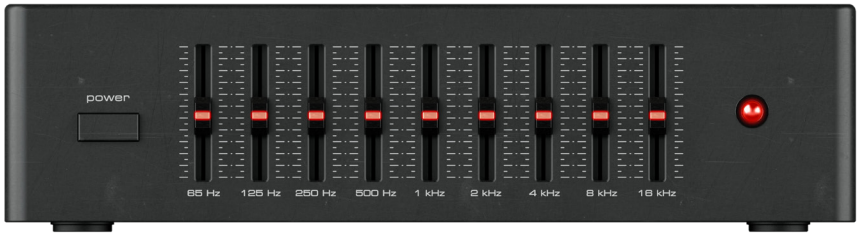
ROOM LEVEL KNOB: Controls the level of the room microphone.

ON/OFF BUTTON: Enables or disables the respective IR loader Section.

Ø PHASE INVERTER BUTTON: Inverts the phase of the loaded IR file.

DRAG TO POSITION: You can also control the microphone position and distance by clicking the microphone and dragging it to the desired spot. The values will be reflected on the Position and Distance knobs and vice versa.

EQ SECTION



High-fidelity Graphic EQs that allow you to control nine different frequency bands individually.

POWER SWITCH: Click to activate/bypass the Graphic EQ.
EQ BANDS: Bank of nine control sliders used to boost or cut frequency bands.

POST FX SECTION

DELAY Pedal

MIX KNOB: Controls the amount of delay effect that is added to the original dry input signal.
FEEDBACK KNOB: Sets the amount of delay returned to the input of the delay line. The higher the settings, the more repeats.
HIGH/LOW PASS FILTER KNOBS: Controls the cutoff frequency of the high-pass filter and the low-pass filter accordingly.
TIME L/R KNOBS: Sets the delay time in either milliseconds or musical subdivisions ranging from **100ms to 1100ms** and **1/64T to 1/1D**.
MODE SWITCH: Toggles between single and dual modes. Dual mode allows to have different delay times for L and R channels.
TIME TYPE SWITCH: Toggles between milliseconds and musical subdivisions.
SYNC SWITCH: Determines whether the delay time is set according to the plugin/DAW tempo or manually. When the Delay is in Sync Off mode, it can be set by typing the value into the display with the keyboard.
TAP TEMPO STOMP SWITCH: Controls the delay time by clicking. The delay time is set as the interval between the last two clicks on the stomp switch. Only available when the SYNC switch is disabled.
ENGAGE STOMP SWITCH: Click to activate/deactivate the pedal.

REVERB Pedal

MIX KNOB: Controls the amount of reverb effect that is added to the original dry input signal.
HIGH/LOW PASS FILTER KNOBS: Controls the cutoff frequency of the high-pass filter and the low-pass filter accordingly.
PRE DELAY KNOB: Sets the amount of time between the original dry sound and the reverb's first reflection.
DECAY KNOB: Determines the length of the reverb decay envelope.
BYPASS STOMP SWITCH: Click to activate/deactivate the pedal.

GLOBAL FEATURES

INPUT AND OUTPUT GAIN KNOBS: The input gain knob will affect how much signal the plugin will feed in. Adjust according to your needs and input signal levels. The output gain knob will affect how much signal the plugin will feed out. The meters will show if input or output signals are clipping by holding a gray indicator for three seconds.

GATE KNOB: Sets the threshold below which the signal is gated. Decrease the knob all the way down to turn the gate off.

INPUT MODE SWITCH: Real-life hardware has the power to process only a mono input signal. With the Stereo switch, you are able to process a stereo input signal. Ideal for running stereo bass tracks or experimenting with any stereo sources.

TRANSPOSE KNOB: Globally pitches up or down the signal by a constant interval. At its default position (0), the transpose module is bypassed.

DOUBLER SWITCH: Engages the doubler effect. Disabled in stereo mode.

SPREAD KNOB: Sets the time offset of the Doubler for the Left and Right channels when the DOUBLER is active.

PRESETS MENU: This functionality allows the user to save, load, import and export presets. The presets are saved as **XML files**.

COGWHEEL ICON (*STANDALONE ONLY*): Audio settings menu. You can select the audio interface to use, set the input/output channels, modify sample rate, buffer size and MIDI devices.

MIDI PORT ICON: Opens the MIDI Mappings window. To map any external device to control the plugin, please check the MIDI SETUP instructions (***Page 19***).

PITCHFORK ICON: Click to activate the built-in tuner.

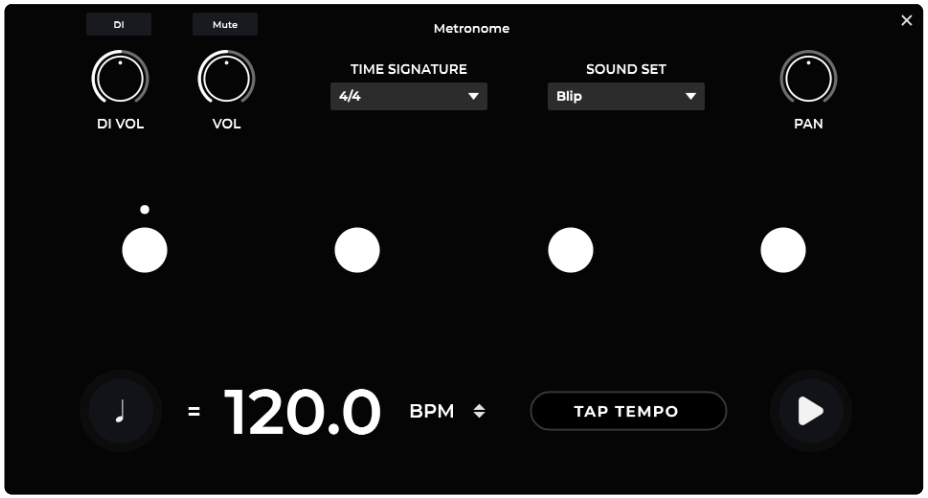
METRONOME ICON (*STANDALONE ONLY*): Opens the metronome interface. Right-click on it to start/stop the metronome playback (***Page 17***).

TAP ICON (*STANDALONE ONLY*): Controls the plugin global tempo by clicking it. The time is set as the interval between the last two clicks.

TEMPO VALUE (*STANDALONE ONLY*): Adjusts the tempo by clicking the arrows. Double-click on it to enter numerical values.

RESIZE BUTTON: Click to resize the plugin Window. You can select between four possible sizes. Large and X-Large sizes are the same when using low resolution screens.

METRONOME



A metronome is a device that produces a steady pulse to help musicians play in time. The pulse is measured in Beats Per Minute (BPM).

When using the standalone app, click on the metronome icon to open its interface. **Right-clicking on it will start/stop the metronome playback**. Closing the metronome will not stop its playback.

The last used settings will be remembered after reopening the standalone app.

DI BUTTON & DI VOL: Click DI to enable the direct input monitoring. Control its volume by dragging the DI VOL knob.

MUTE BUTTON & VOL: Click MUTE to mute the metronome's beats. Control their volume by dragging the VOL knob.

PAN KNOB: Controls the output panning of the metronome.

TIME SIGNATURE MENU: This list features 21 different time signatures, including compound and complex variations. Selecting a time signature will change the beat order and the musical accents.

SOUND SET MENU: This list includes 5 different sounds for the metronome.

BEATS: Toggleable beats that can be changed or turned off by clicking. They offer visual feedback according to the current tempo, subdivisions, and accents selected. The white beats include 3 different accents and the grey beats include only one. Right-click on them to reveal a drop-down menu.

BEATS PER PULSE BUTTON: Determines how many beats can be heard per pulse.

BPM VALUE: Determines the beat speed. The tempo ranges from 40 to 240 BPM. Click to enter a custom value with the keyboard.

UP/DOWN ARROWS: Click to change the value by 1.0 BPM. Click-and-hold to change the value by 10.0 BPM.

TAP TEMPO BUTTON: Controls the metronome tempo by clicking it. The tempo is set as the interval between the last two clicks and it's also linked to the plugin global tempo.

START/STOP BUTTON: Controls the metronome playback. MIDI assignable.

PRESETS

This functionality allows the user to save, load, import and export presets. The presets are saved as **XML files**.

SAVE BUTTON: The Diskette Icon on the left allows the user to save the current configuration as a preset.

DELETE BUTTON: The trash bin allows the user to delete the active preset. (***This action cannot be undone***). If you tweak an existing saved preset and you need to recall the saved version, just load another preset and load back the desired preset. Clicking on the name of the modified preset once its loaded will NOT recall its values.

LOAD PRESET: You can load presets from other locations (***XML files)***.

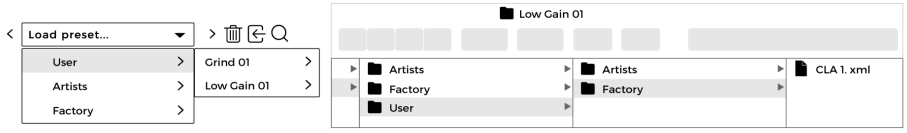
PRESETS FOLDER SHORTCUT: Click the *Magnifying Glass* icon on the Presets toolbar to open the Neural DSP preset folder.

DROPDOWN MENU: The arrow on the right side of the list displays a list of presets included with the product. They are categorised by factory, artists and the ones created by the user.

WHERE ARE MY PRESETS LOCATED?

Windows:
C:/ ProgramData / Neural DSP / Archetype Tom Morello
Mac OSX:
HD / Library / Audio / Presets / Neural DSP / Archetype Tom Morello

CUSTOM PRESET FOLDERS



You can create folders to organize your presets under the main directory. The dropdown menu will be updated the next time you open the plugin.

MIDI SETUP

The plugin supports MIDI messages. Please, check the following steps to assign MIDI controls to plugin parameters and different UI components.

Right-clicking on any parameter in the plugin opens a drop-down menu that allows you to easily map any parameter to MIDI messages.

Mapping MIDI note event to Buttons:

- Enable MIDI Learn from the right-click menu.
- Click on the component you want to control.
- Press down a MIDI note on the MIDI controller and release it.
- Disable MIDI Learn from the right-click menu.
- Now the mapped MIDI note will toggle the parameter value.

Mapping two MIDI notes to a Slider/Combobox:

- Enable MIDI Learn from the right-click menu.
- Click on the component you want to control.
- Press down the first MIDI note on the MIDI controller.
- Press down the second MIDI note on the MIDI controller.
- Release the first MIDI note.
- Release the second MIDI note.
- Disable MIDI Learn from the right-click menu.
- Now the two mapped MIDI notes can be used to increment/decrement the parameter value.

Mapping MIDI CC event to Buttons:

- Enable MIDI Learn from the right-click menu.
- Click on the component you want to control.
- Press down MIDI CC shortcut on the MIDI controller and release it.
- Disable MIDI Learn from the right-click menu.
- Now mapped MIDI CC events will toggle the parameter value.

Mapping MIDI CC event to a Slider/Combobox:

- Enable MIDI Learn from the right-click menu.
- Click on the component you want to control.
- Move a CC knob on the MIDI controller.
- Disable MIDI Learn from the right-click menu.
- Now the mapped MIDI CC event will control the parameter value.

Mapping two MIDI CC events to a Slider/Combobox:

- Enable MIDI Learn from the right-click menu.
- Click on the component you want to control.
- Press down the first MIDI CC button on the MIDI controller.
- Press down the second MIDI CC button on the MIDI controller.
- Release the first MIDI CC button.
- Release the second MIDI CC button.
- Disable MIDI Learn from the right-click menu.
- Now the two mapped MIDI CC events can be used to increment/decrease the parameter value.

Mapping MIDI Program Change event to Buttons:

- Enable MIDI Learn from the right-click menu.
- Click on the component you want to control.
- Press down the MIDI Program Change shortcut twice on the MIDI controller.
- Disable MIDI Learn from the right-click menu.
- Now the mapped MIDI Program Change event will toggle the parameter value.

Mapping two MIDI Program Change events to a Slider/Combobox:

- Enable MIDI Learn from the right-click menu.
- Click on the component you want to control.
- Press down the first MIDI Program Change button on the MIDI controller.
- Press down the second MIDI Program Change button on the MIDI controller.
- Disable MIDI Learn from the right-click menu.
- Now the two mapped MIDI Program Change events can be used to increment/decrease the parameter value.

All mentioned MIDI Events will be registered on the **MIDI Mapping** window. You can open it and edit all the parameters by clicking on the **MIDI port icon** on the bottom left corner of the plugin. You can add new MIDI events manually by clicking on the "**+**" button.

GUI BASICS

The plugin has knobs and switches in the **Graphic User Interface** (GUI). These resemble the ones in the physical analog hardware with added control.

To bypass a whole section, right-click or double-click on the upper icons.

KNOBS

Use the mouse to control knobs. To turn a clockwise, click on the control with your mouse and move the cursor up. To turn a knob counterclockwise, click on the knob with the mouse and move the cursor down.

RETURNING A KNOB TO ITS DEFAULT VALUE

Double-click on the knobs to recall their default values.

ADJUSTING A KNOB WITH FINE CONTROL

To fine-adjust the knob values, hold down the “command” key (***macOS)*** or the “control” key (***Windows***) while dragging the mouse.

SWITCHES

To interact with buttons or switches, just click on them.

For stomps and certain switches, a LED indicator will light up to signalize whether the parameter is engaged or not.

SUPPORT AND CONTACT INFORMATION

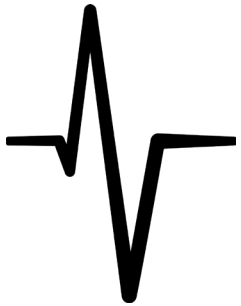
NEURALDSP.COM/SUPPORT

For any technical issues or any problems experienced with our software, please refer to our website. Here you will find our FAQ (*Frequently Asked Questions*), our troubleshooting info (*your question might have been asked before*) and our contact email **support@neuraldsp.com**. Please be sure to contact this specific email for support purposes. If you contact any other Neural DSP email our reply may be delayed.

SUPPORT INFORMATION

In order to help and assist you, please attach the following information to our support team:

- *Product serial number and version (e.g Archetype Tom Morello, Ver 1.0.0).*
- *The DAW you are using and its version (e.g ProTools 2022.12, Cubase Pro 12, Ableton Live 11).*
- *Interface/hardware (e.g. Apollo Twin, Apogee Duet 2, etc.).*
- *Computer and operating system info (e.g. Macbook Pro OSX 13, Windows 11, etc.) .*
- *A detailed description of the problem.*



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