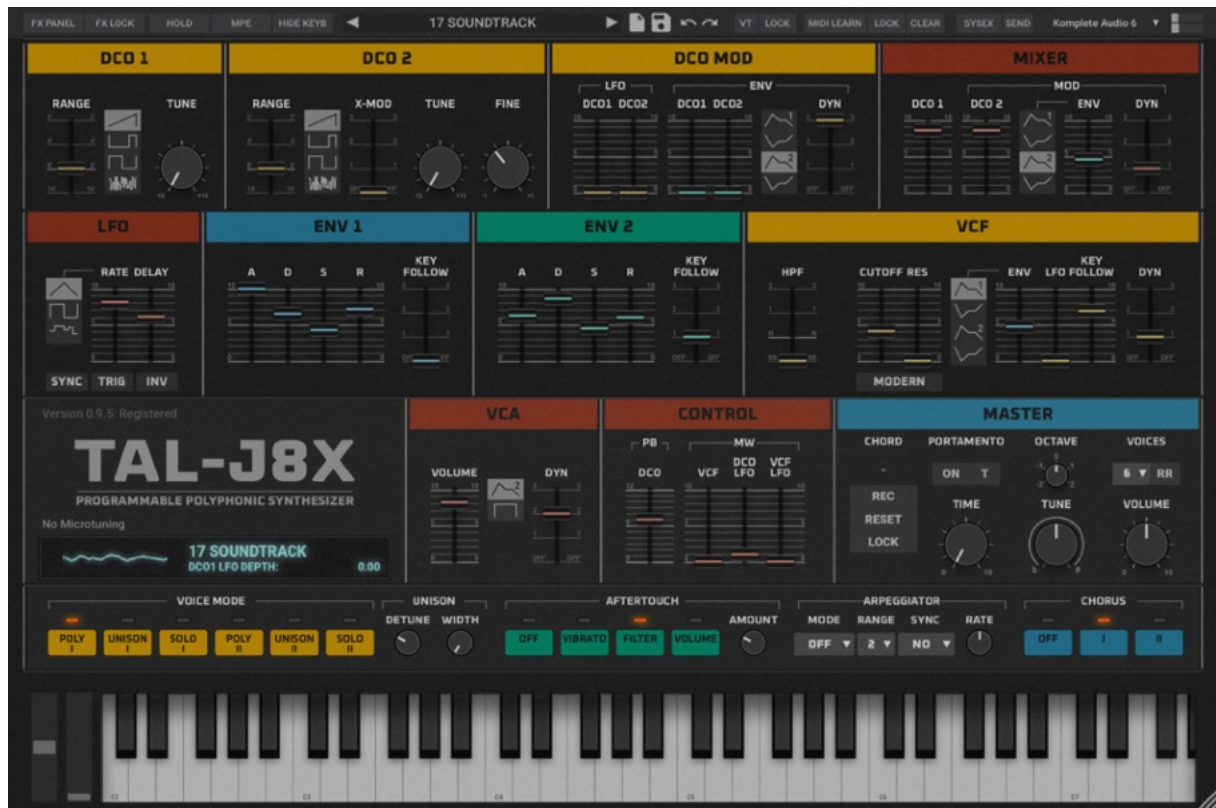


# TAL-J8X

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# TAL-J8X

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## Introduction

TAL-J8X is an instrument plug-in that emulates the sound of the analog 80's synthesizer with additional features that add a fresh touch to this synth.

It is tuned after our revision 2 / OS 3.1 device.



All sounds are generated in real time and without the use of samples.

It works within the most common audio hosts as *Ableton Live*, *Cubase*, *Logic Pro*, *Garage Band*, *Reaper*. There is no standalone version available. Try the unregistered demo version to be sure that the plug-in works in your environment. The demo will play a noisy sound every minute.

## Installation

### Windows

#### Requirements:

- 64 bit sequencer software (VST 2.4, VST3, CLAP or AAX compatible)
- Windows 10 or newer

#### Installation:

- Download the zip file and unpack it.
- Run the installer for the VST3, AAX or CLAP version.
- VST2: please copy the plug-in manually to your hosts VST2 directory. The dll file inside the zip is the VST2 plugin.
- You can also copy the other plug-in formats manually without running an installer:

#### VST3 Directory:

C:\Program Files\Common Files\VST3

#### AAX Directory:

C:\Program Files\Common Files\Avid\Audio\Plug-Ins

**Some hosts may also need a restart or plug-in rescan.**

**If you use Ableton Live and the plug-in does not show up after a VST plug-in rescan, try to disable and re-enable VST plug-in support.**

-

#### Uninstall:

Just delete the plug-in file to uninstall it.

## OS X

### Requirements:

- OSX 10.11 or higher.
- 64 bit sequencer software (VST 2.4, VST3 or AAX compatible)

### Installation:

- Download the zip-file, unpack it and run the installer.
- The installer copies the plug-in to the right directory. It installs all available versions by default (VST, VST3, AU, CLAP, AAX).

### Uninstall:

Delete the plug-in. It's located in following directories:

*/Library/Audio/Plug-Ins/VST/  
/Library/Audio/Plug-Ins/Components/*

**Some hosts may also need a plug-in rescan or at least a restart.**

**You maybe need a macOS restart for the Audio Unit.**

**If you use Ableton Live and the plug-in does not show up after a VST plug-in rescan, try to disable and re-enable VST plug-in support.**

## Registration

You have to enter the serial key to disable the demo mode. A noise fades in every minute in demo mode. You should receive the key a few seconds or minutes after the payment.

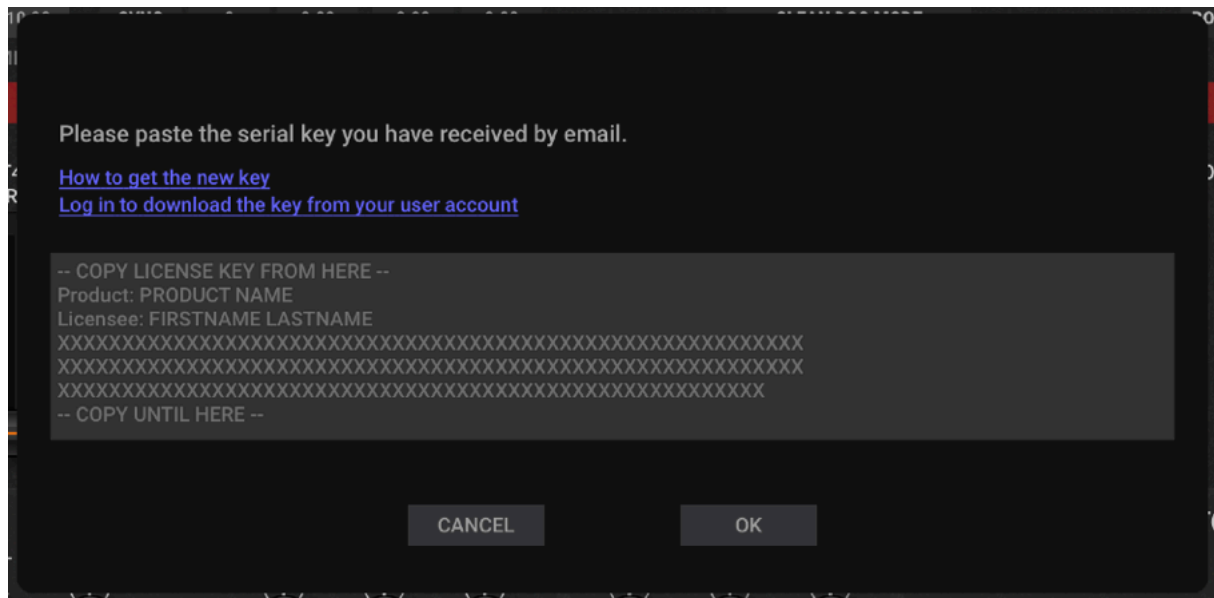
The plug-in displays a dialog in which you can insert the serial key that you received when you purchased the product. Please make sure that you insert the entire serial key including the header and footer:

-- COPY LICENSE KEY FROM HERE --

...

-- COPY UNTIL HERE --

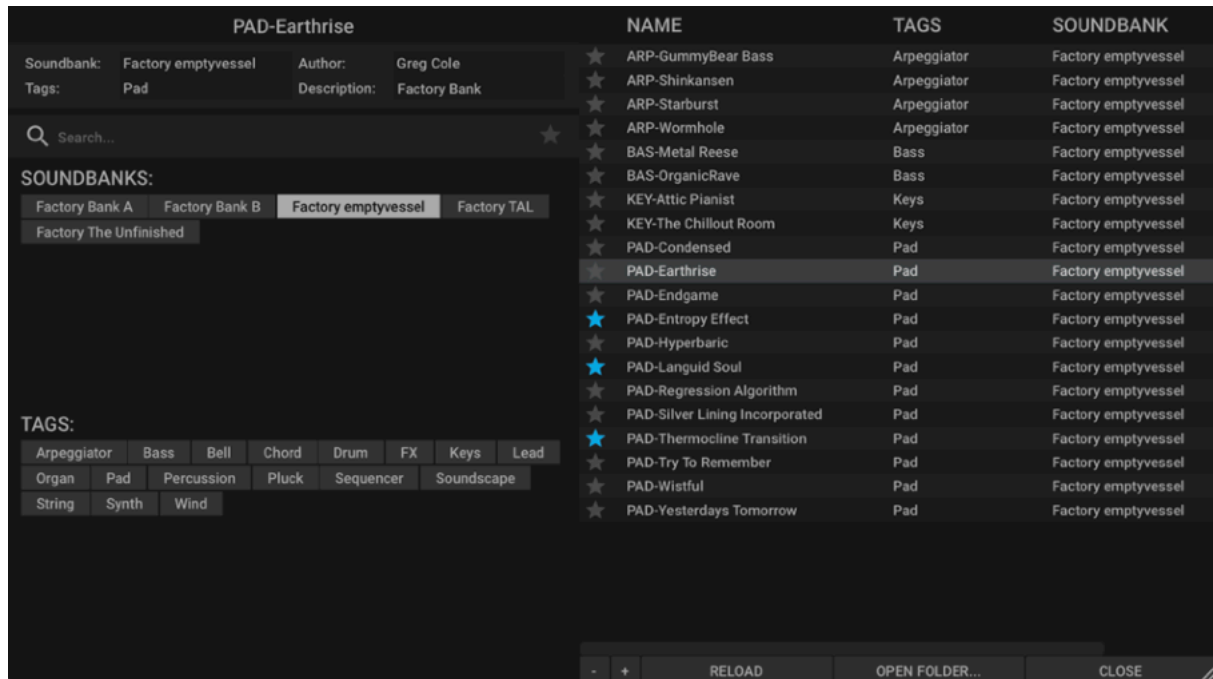
Then press OK to verify the serial and disable the demo mode.



**You maybe restart the host after the registration to make sure that also other plug-in instances are registered.**

## Preset Browser

A click at the *File* Icon opens the plug-in preset browser:



### Search Presets

It's possible to search presets by text or only show favourite presets.

### Soundbanks and Tags

It's possible to filter presets by the bank or by tags.

### Rename Preset

It's possible to rename the preset directly in the preset browser with a click on the preset name on the top left.

### Edit Preset Properties

It's possible to directly edit the soundbank, author or description in the browser. Every preset can have multiple tags. Use a space, comma or semicolon to enter more than one tag.

### Reload

Triggers a full reload of the preset list. This is required when you add new presets into the preset folder or if you created new tags.

### Open Folder...

Opens the preset folder in Finder or Explorer.

### Favorite

Presets can be marked as favourite when clicking on the star icon. It's possible to search for them when clicking on the star icon on the right of the search text.

## Options



### **FX PANEL**

Shows / hide the FX settings.

### **FX LOCK**

Effect settings stay the same when changing presets.

### **HOLD**

Holds the note or arpeggiator. Can also be controlled with the sustain pedal.

### **MPE**

Enables MPE mode.

### **HIDE KEYB**

Shows / hides the keyboard at the bottom of the plugin.

### **PRESET NAME**

A click on the preset name opens the menu. Its possible to switch presets with the arrow keys.

### **FILE ICON**

Opens the preset browser.

### **DISK ICON**

Opens the "Save as.." dialog.

### **Undo / Redo Icons**

Undo / Redo parameter changes.

### **VT**

Opens the voice tuning dialog. This allows to tuning every voice separately.

### **LOCK**

Locks the current voice tuning.

### **MIDI LEARN**

Enables MIDI LEARN. Move a software slider followed by a hardware MIDI slider. Disable MIDI LEARN or make the next mapping.

### **LOCK**

Locks the MIDI mapping.

### **CLEAR**

Deletes all MIDI mappings.

## SYSEX

If this option is enabled, the synth will send JX 8P / MKS 70 / JX 10 sysex tone messages to the MIDI output when a plug-in parameter changes.

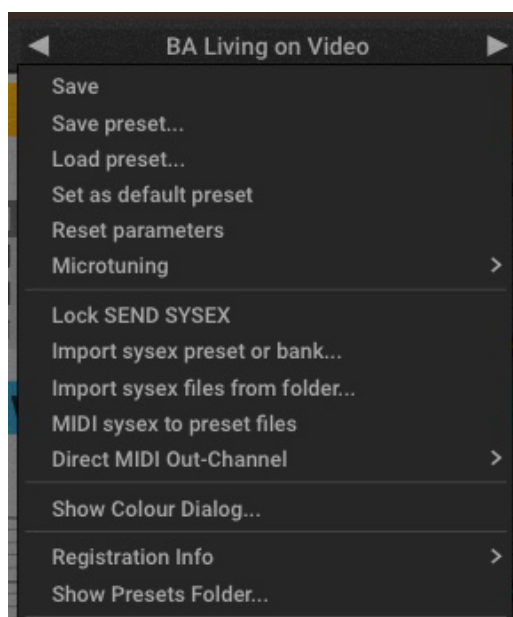
Use this to control a hardware device. You need a DAW that will let you send the plug-ins MIDI-sysex output to a hardware device.

## SEND

This sends the current plug-in settings with sysex to the hardware.

## Menu

A click on the preset name on the top opens the *Menu*:



### Save / Load Preset...

Save and load presets from the file system with the native file browser of your operating system.

### Save as Default Preset

Replaces the Default preset in the root preset folder. This preset loads when you create a new instance of the instrument. You can save your default MIDI Mappings within this preset.

### Reset Parameters

Resets and restore the plug-ins default state.

### Microtuning

Loads \*.tun files for a microtonal tuning of the current preset or enable MTS.

## **Lock SEND SYSEX**

This makes sure that SYSEX on the top right of the plug-in stays active or inactive when changing presets.

## **Import Sysex or preset bank**

This will import JX 8P or MKS-70 sysex files with the ending “syx”. It will automatically save the presets as TAL-J(X preset files in a folder with the name of the file.

## **Import Sysex files from folder**

Imports all sysex presets from the selected folder. It puts the presets in a new folder with the current date in the name.

## **MIDI Sysex to Preset Files**

This creates preset files in the case the plug-in receives Sysex patches through MIDI input.

## **Direct MIDI Out-Channel**

The output channel for the SYSEX. Default is channel 1.

## **Show Presets Folder...**

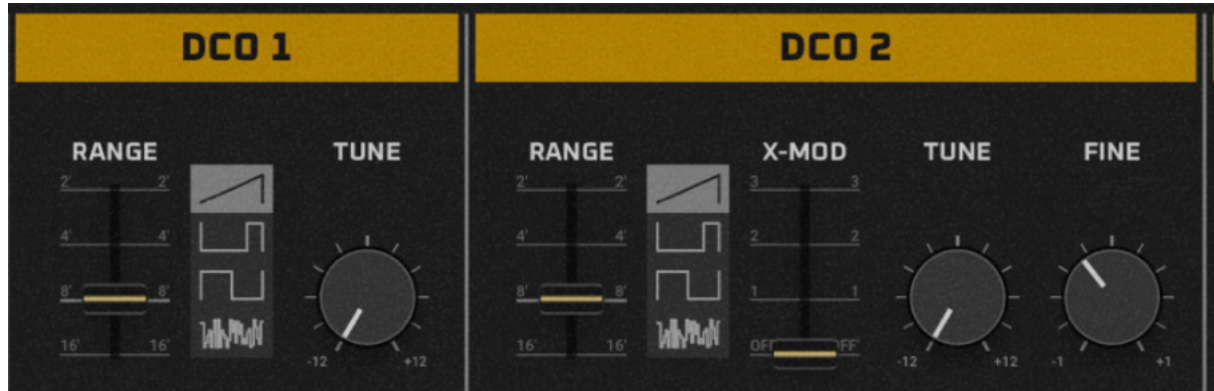
Opens the native file browser at the plug-ins preset location. This is the place where you can copy additional presets.

## **Presets List**

The last section contains all presets located in the plug-ins default preset location.

## DCO1 / DCO2

This contains the oscillator settings:



### RANGE

The octave of the DCO's.

### Waveform

Both DCO's can produce SAW. Pulse, Square and Noise waveforms.

### TUNE / FINE TUNE

Both DCO's can be tuned with +12 semitones. DCO2 has an additional fine tune knob that allows tuning in a +-1 semitone range.

### X-MOD

The synth has unique X-MOD features. Following modes:

- OFF: X-MOD is not active
- 1: Hard sync of DCO2 (master DCO1).
- 2: Hard sync and AM modulation between DCO1 and DCO 2 (master DCO1).
- 3: AM modulation between DCO1 and DCO 2.

## DCO MOD



LFO

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LFO modulation amount for DCO1 and DCO2.

## ENV

Envelope modulation amount for DCO1 and DCO2. It's possible to choose Envelope 1 or 2 as a source. Inverse and normal Modes are possible.

## DYN

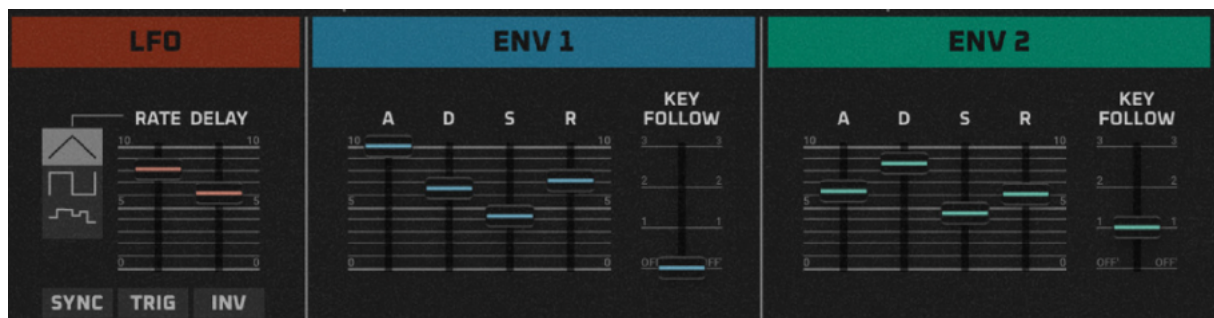
Controls how much the envelope should be controlled by the note on velocity. 3 means very sensitive, while 1 is less sensitive.

# MIXER



Controls the volume for both DCO's. It is possible to modulate the volume of DCO2 with one of the envelopes. Dynamic controls how much the velocity affects Envelope 2.

# MODULATOR SOURCE (LFO and envelopes)



## LFO

LFO with Rate in Hz and Delay option. Triangle, Square and Sample and Hold waveforms. Host Sync Option is also available. TRIG resets the LFO when a new note starts. INV inverts the LFO Waveform.

## ENV

Envelope with attack, decay, sustain and release parameter. Key Follow changes the envelope speed depending on the note when enabled. Higher notes get a faster envelope.

## VCF

**HPF**

A high pass filter. N is the neutral position. The lowest setting (BB) boost the bass frequencies. 1 and 2 cut away low frequencies.

**CUTOFF / RES**

Cutoff frequency of the 24dB low pass filter. Resonance emphasises the cutoff point.

**MODERN**

Uses the same filter, but runs the signal hotter into the filter with more drive and can add more resonance until self oscillation. The volume does not drop that much when resonance is added.

**ENV**

Defines how much the envelope modulates the filter. Envelope 1 or 2 can be used, also with the inverse option.

**LFO**

LFO modulation amount.

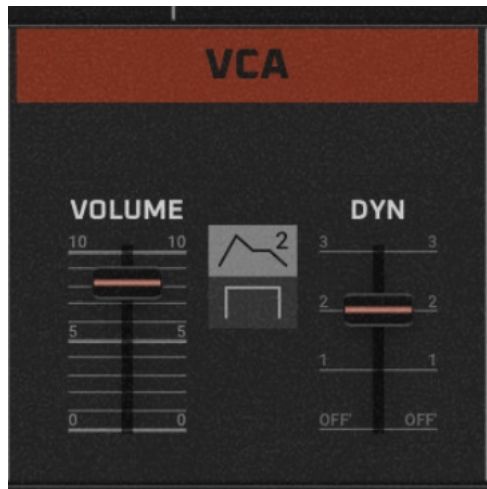
**KEY FOLLOW**

This defines how much the filter cutoff frequency follows the keyboard key. It follows the note frequency 100% with the value 83.

**DYN**

Controls the envelope amount with the note on velocity.

## VCA



The tone volume section. It's possible to choose between Envelope 2 or Gate-Mode to shape the volume. DYN controls how much velocity affects the volume.

## CONTROL



### PB

This sets the pitch-wheel range in semitones.

### MW

Modulation wheel settings. It can modulate the VCF cutoff or the DCO / VCO LFO amount.

## MASTER



### CHORD

Lets you record chords with up to 5 notes.

### PORTAMENTO

When enabled, portamento is active. The hardware always has portamento enabled. The T option allows it to enable portamento only, when notes overlap. TIME defines how fast the portamento is.

### OCTAVE / TUNE

Change the octave and set the master tune of the whole synth engine.

### VOICES

Set the number of voices. The original synth had 6 voices. The plugin allows up to 12 voices. RR enables the round robin voice mode. You may open the VT dialog while playing to see the difference to the normal voice mode.

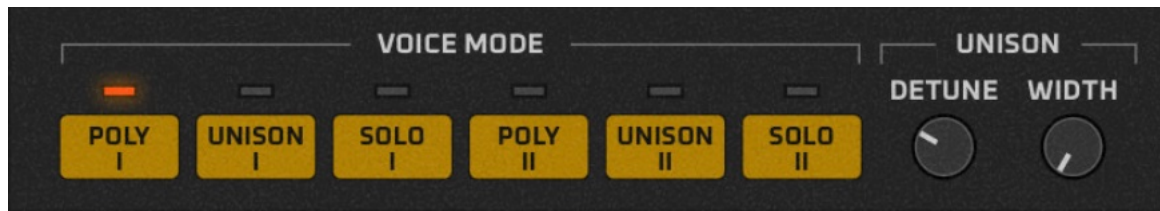
### VOLUME

The master volume.

## VOICE MODE

Lets you set the voice modes like on the hardware.

We decided to implement the UNISON modes in a more modern way than the hardware. In the unison modes we only duplicate the DCO's and not the whole voice. And the synth also has a stereo WIDTH option, the hardware does not. To emulate the original UNISON behaviour I recommend the chord mode together with the VT settings.



POLY 1: Normal polyphonic mode.

POLY 2: Polyphonic mode optimised for portamento.

UNISON 1: Two DCO sections detuned (DETUNE).

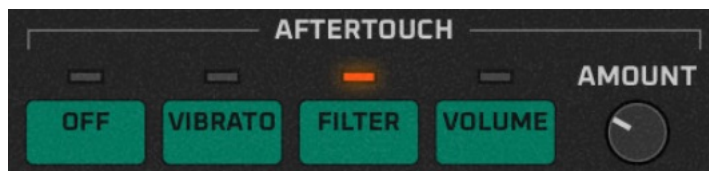
UNISON 2: Two DCO sections detuned (DETUNE) and one octave lower.

SOLO 1: Legato mode with one voice.

SOLO 2: Legato mode with all voices in UNISON, detuned (DETUNE).

## AFTERTOUCHE

Like the original, the plugin also supports aftertouch with different modulation destinations:



VIBRATO: LFO DCO modulation amount.

FILTER: Filter cutoff frequency.

VOLUME: Volume amount.

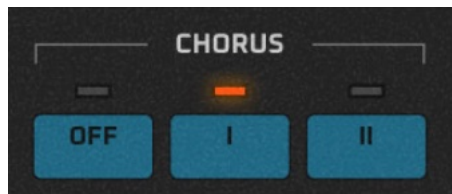
AMOUNT: The amount of the modulation.

If MPE is enabled, the synth has polyphonic aftertouch support.

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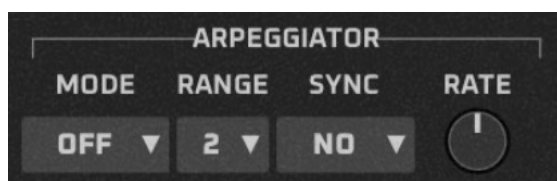
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## CHORUS



The two chorus modes like the hardware has.

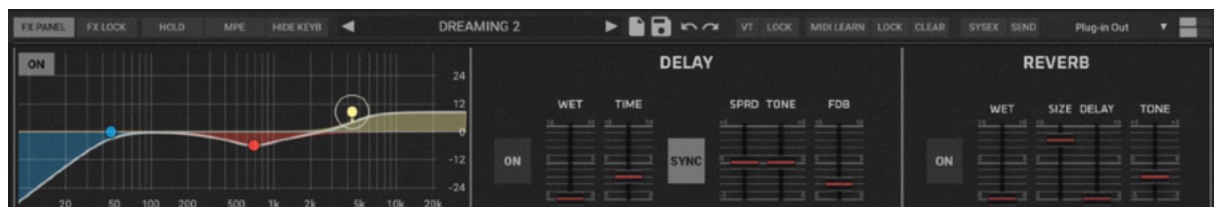
## ARPEGGIATOR



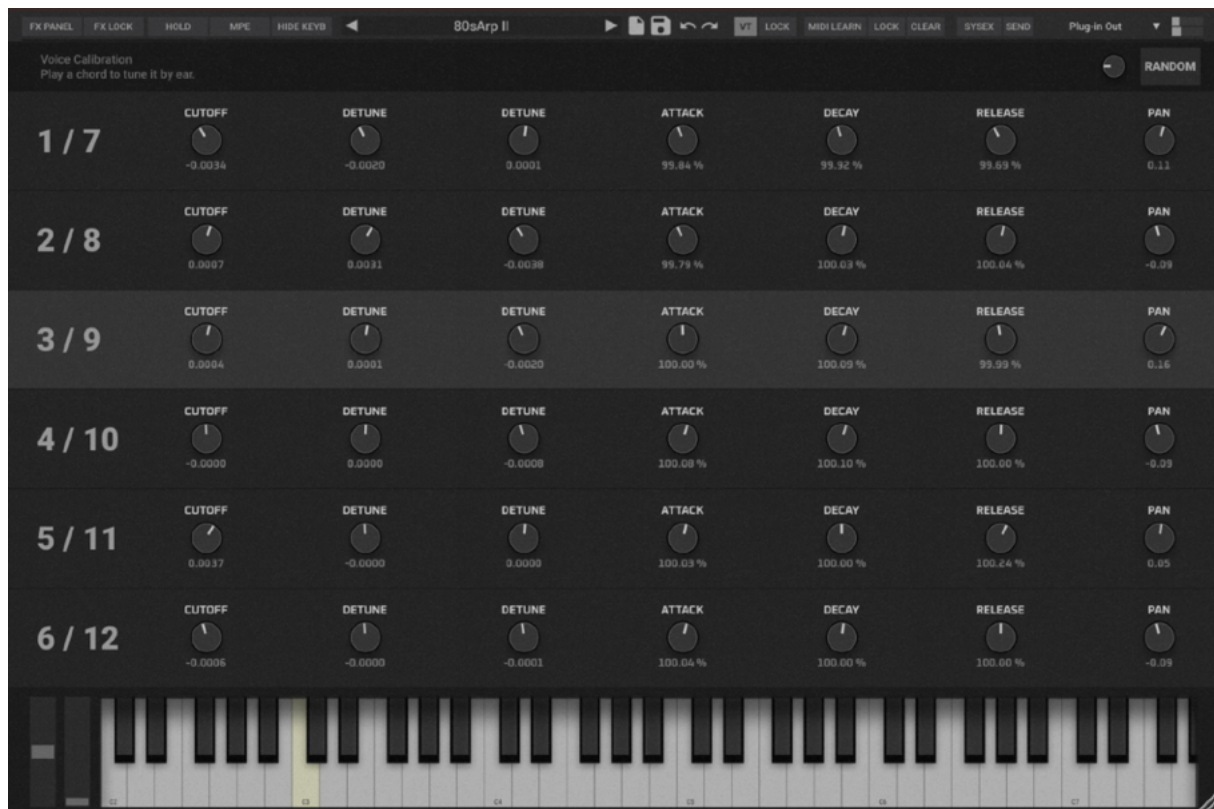
A simple but powerful arpeggiator. Can be synced to the DAW and supports octave ranges.

## FX PANEL

The synth has a high quality EQ, delay and reverb included.



## VT (Voice Tuning)



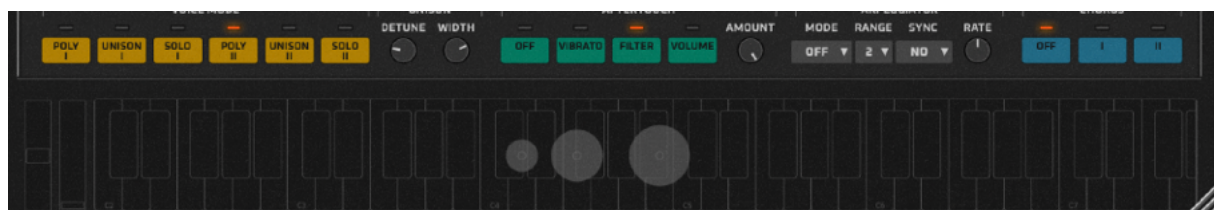
This dialog opens when you click at the VT button on the top. It can be used to detune the individual voices to create a more interesting sound similar to an analog synthesiser without a clock. Same for cutoff frequency and envelope times that often also varies on analog devices.

It is also possible to pan the individual voices. This is useful in conjunction with the round robin voice mode. This view highlights the voice that is currently playing.

You can set these values randomly using the Intensity control and the Random button. This setting is saved in the preset.

## MPE

The plug-in also has MPE support. The keyboard switches to MPE mode when enabled.





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