# Vecto 1.0.2. Manual Addendum 2021-06-10

## Control Menu

Clicking on the Control Menu icon will pop up the Control Menu, where you can set the screen size, set how Vecto reacts to MIDI, and other options.  Also, it allows you to reset Vecto, shows the current version of Vecto and check for any updates to Vecto.

Some of these settings are also available in the back screen, which can be accessed by clicking on the Vecto logo. Please check the chapter 'Back Screen' for more information.

### Sample Offset

If inside one of the 4 Vecto Oscillators a sample is selected as waveform, the sample offset dial controls the start position of the sample, larger values mean that the sample starts nearer the end of the sample, smaller values mans that the sample start nearer the start of the sample.

## Grain Controls

Vecto can now use granular resynthesis to change the pitch /length of the sample by replaying many small grains of sound from the sample at different pitches/rates.

When you use Vecto it built in samples, the SMA amount/speed dials are removed and replaced by Size, Length, and Random dials. A Grain On/Off button has been added.

### Grain On/Off

Turns on granular resynthesis of the sample. The Grain On/Off feature only appears if the waveform inside the Oscillator is a sampled one

### Grain Size

Sets the size of the grains used in the granular resynthesis.

### Grain Length

Changes the length of the granular resynthesized sample, from 1/16 x to 16x the original length of the sample, so at extreme settings it will stretch out the sample.

### Grain Random

Randomizes the position of the grains, this helps stop phasing due to the grains interacting.

## Play Modes

In addition to the current Poly, Legato, Mono & Arp modes, new play modes have been added

### Mono Low

Mono Low plays like Mono Mode but only notes lower than any held note are played.

### Mono High

Mono High plays like Mono Mode but only notes above any held note are played.

### Legato Low

Legato Low plays like Legato Mode but only notes lower than any held note are played.

### Legato High

Mono High plays like Mono Mode but only notes above any held note are played.

### Poly MPE

Vecto can operate in polyphonic mode according to the MPE specification. Each voice operates on its own MIDI channel. This allows you to apply Pitch Bend and Aftertouch to individual notes/voices, rather than to all voices simultaneously.

## Filter Types

In addition to the current filter types, 12dB & 24dB Low-Pass, High-Pass, Band-Pass and Notch Zero Delay Filters have been added.

## FX Types

In addition to the current modulation FX are Vibrato, Tremolo, and AutoPan modulation effects have been added.

### Tremolo

Tremolo alter the volume of the sound over time.

| | |
|---|---|
| **Wave** | Waveform use by Tremolo - Sine, Triangle, Saw Up, Saw Down & Square. |
| **Amount** | Amount the tremolo changes the volume of the sound. |
| **Speed** | The rate at which the tremolo changes the sound. This is Tempo based so for example 1/1 does mean that the pan moves from left to right within 1bar. |
| **Shape** | Changes the shape of the Tremolo wave by altering the symmetry of the wave. |
| **Smooth** | Smooths the Tremolo wave. |

**Note: for maximal effect you also need to open the FX Mix control knob fully right (wet)**

### Vibrato

Vibrato alter the pitch of the sound over time.

| | |
|---|---|
| **Amount** | Amount the Vibrato changes the pitch of the sound. |
| **Speed** | The rate at which the Vibrato changes the pitch of the sound. This is Tempo based so for example 1/1 does mean that the pan moves from left to right within 1bar. |
| **Shape** | Changes the shape of the Vibrato wave by altering the symmetry of the wave. |

Note: for maximal effect you also need to open the FX Mix control knob fully right (wet)

### AutoPan

Autopan pans the sound between the left and right speakers.

| | |
|---|---|
| **Amount** | Amount the Autopan moves the sound in the stereo field. |
| **Speed** | The rate at which the Autopan moves the sound. This is Tempo based so for example 1/1 does mean that the pan moves from left to right within 1bar. |

Note: for maximal effect you also need to open the FX Mix control knob fully right (wet)

## Manager – Order by Date

When you click on the "Order by Date" in the Preset Manager screen, the Presets will be ordered by their creation / last modified date.

## Modulation Sources

The new modulation sources Brightness (MIDI CC 74) & MIDI CC 113 & 114 have been added.

## Modulation Destinations

The new modulation destinations, Grain 1 to 4 Size & Grain 1 to 4 Length have been added.