Key Viewer

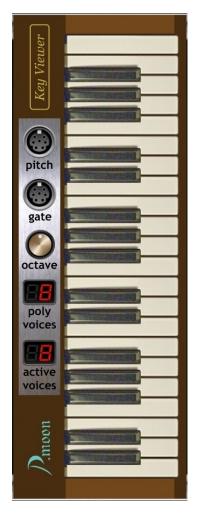**Build #2, 2023-06-24**

P.moon Key Viewer is a visualizer. It helps you to stay informed about a poly CV signal.

Functions

- Visualization of active notes.

- Pitch offset from -5 to +5 octaves possible.

- Switchable fixed offset: *Voltage mode*: +2 octaves, *Moog mode*: none.

- Displays number of poly voices, as set in *Voltage Modular®.*

- Displays number of actually used voices.

Controls and connectors

Feed a poly pitch CV signal into this connector.

When mouse cursor is on pitch label, a red frame appears. It indicates a hidden function.

After a right click on the label a drop down menu lets you select a **pitch mode**. Actual pitch mode is marked with a hook sign. You can switch to the other mode by clicking on it. A click to anywhere else effects no mode change.

Within *Voltage Modular* pitch range is from -2 volts (tone "C0") up to +8 volts (tone "C10") while traditional hardware *Moog* synthesizer modules mostly work within a range from 0 volts ("C0") to +10 volts ("C10").

This means, that in Voltage mode all tones are two octaves higher than in Moog mode.

A poly gate signal is needed, when visualization should match actually played notes.

When no cable is connected to this input, notes of all available poly channels will be visualized. (= Number of poly voices as set in *Voltage Modular®*.

With **octave** knob poly input pitch signals can be transposed from -5 to +5 octaves. Default is 0.

This display shows number of poly voices as set in *Voltage Modular®*. This number is the maximal count of keys, that can be shown as played at same time.

This displays shows total count of played <u>notes</u>. Several poly channels can play same note. So count of visualized played keys may differ.

If no cable is connected to gate input jack, active voices count equals poly voices count.