



KString

Karplus-Strong String Simulator

Introduction

A very simple oscillator that implements [Karplus-Strong](#) algorithm to simulate a plucked string.

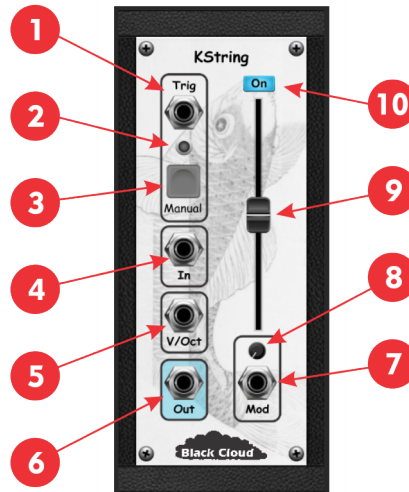
While the **KString's** range is limited at the high end to ~8000Hz, it'll go way down low if asked. And the Modulation input affects oscillator pitch in ways from mild to wild.

The Trigger input drives plucks at a pitch controlled by the V/Oct input with alternate manual Trigger and Pitch controls also provided.

By default, random noise is used to "preload" the string, but live audio can be used instead via the Input jack.

The oscillator is internally damped, but will "ring" for an extended period after each pluck. Use an envelope generator to shape the output sound as desired.

Knobs, Buttons and Sliders



<p>1 Trigger Input Apply a positive going trigger here to pluck the "string".</p>	<p>6 Audio Output Audio signal generated by plucking the "string".</p>
<p>2 Triggered LED Lit when the module is triggered.</p>	<p>7 Modulation CV Input The "string" pitch will be modulated based on this input, if present.</p>

3	Manual Trigger Manually pluck the “string”.	8	Modulation Gain Adjust gain of the Modulation CV input.
4	“Preload” Input By default, the “string” is pre-loaded with white noise. Any signal present here will be used to pre-load the string instead.	9	Manual Pitch Adjust Manually adjust the pitch of the “string”.
5	V/Oct Input Controls the pitch (length) of the string. Range is limited to 1 – 8000Hz.	10	String On/Off (Mute) Enable/disable audio output from the “string”.