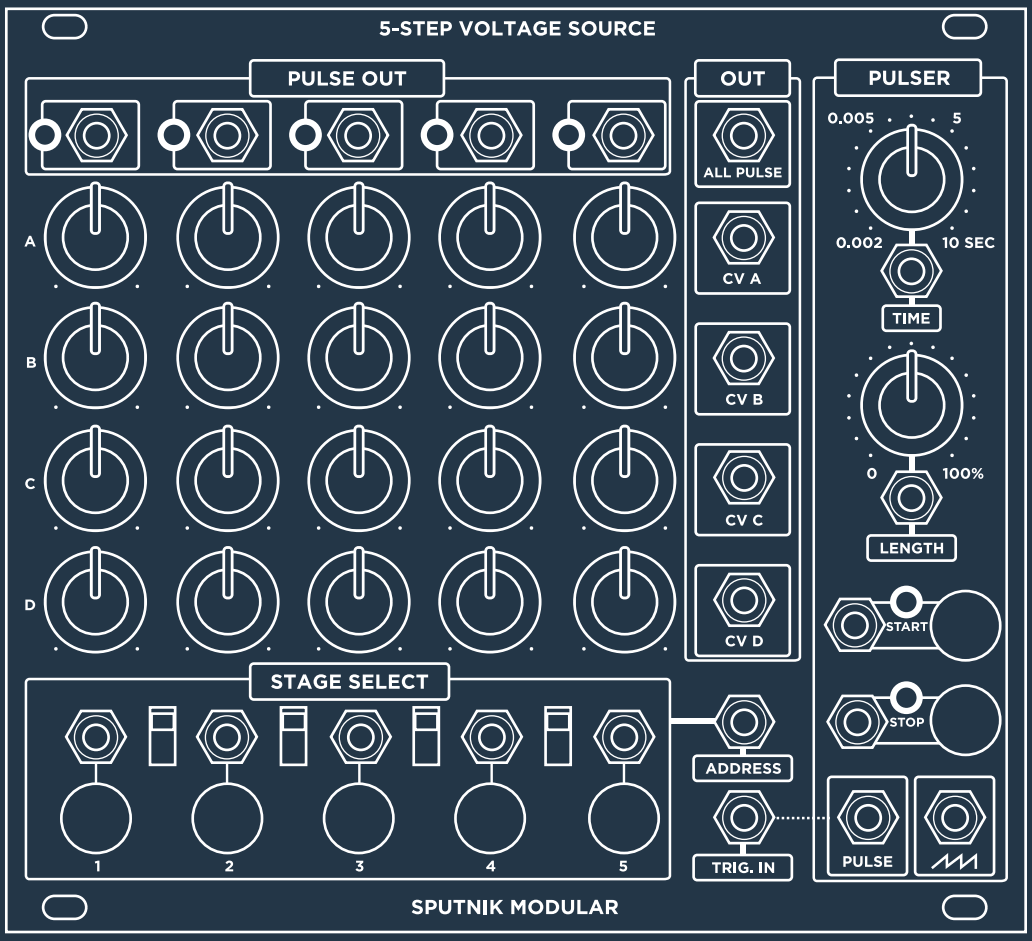
SPUTNIK MODULAR

5-STEP VOLTAGE SOURCE
MANUAL V.1



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SPECIFICATIONS

FORMAT:
EURORACK

DIMENSIONS:
10HP, 28mm deep

INTERNAL AND EXTERNAL SIGNALS (3.5mm Jacks):
CV: 0-5V, AUDIO: +/-5V

MAX CURRENT:
+12V: 50mA
-12V: 75mA
+5V: 10mA

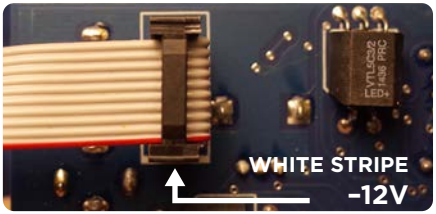
INSTALLATION

1. Remove module from packaging.

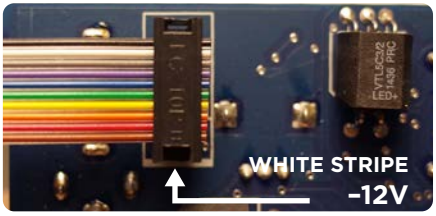
2. Power down your modular synthesizer and disconnect the power cable from the wall outlet.

3. Attach the included power cable to the module's power connector and connect the other end to the power distribution bus in your EuroRack synthesizer case. If you have a bi-colored ribbon cable the red stripe should be on a same side with a bold white line on a pcb. In case if you have a rainbow-colored ribbon cable the key is brown. Connector also has a key which should match sikscreen on a pcb.

4. Position the module on the mounting rails in your EuroRack case and screw down mounting screws. Power up! If your case does not turn on properly then you have installed the module incorrectly. Simply power down and make sure to follow the diagram when reconnecting the module.



BI-COLORED RIBBON



RAINBOW RIBBON

DESCRIPTION

The SPUTNIK CV PROCESSOR is a multi-functional module for manipulating Eurorack control signals. It can sum, invert, attenuate, amplify control voltages, also it can add offset to CV or crossfade between two CVs. Audio signals may be processed same way as the CVs with this module.

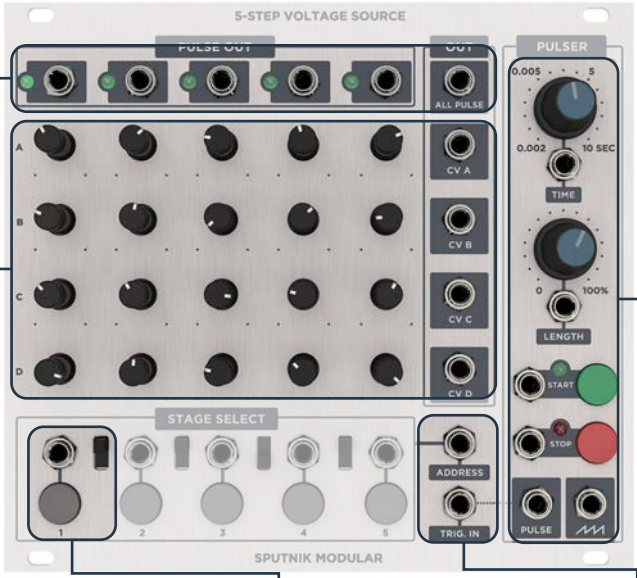
Each stage features a pulse output that is triggered when that step or “stage” is activated. Individual stages have their own unique pulse outputs and the ALL PULSE output generates a pulse whenever any of the five stages are triggered.

Stage LEDs indicate which stage is currently active and show sequence progression.

The Pulser is normalized to act as a voltage controllable master clock for driving stage selection like a conventional sequencer. It can also be used as an independent clock submodule or an LFO with two waveform outputs.

Pulser TIME features front panel control of pulser timing. Pulse speed varies from approximately .002 seconds per stage to 10 seconds per stage. Time can also be controlled via CV input (higher voltages correspond to slower tempos and lower voltages correspond to faster tempos). Pulser LENGTH control varies the width of the pulse generated at the Pulse output. START and STOP buttons control Pulser activation. Start and Stop can also be engaged by sending pulses to the respective input jacks.

Two waveform outputs: variable width pulse and sawtooth.



Four channels of CV outputs (CV A to CV D), each with up to five stages of voltage storage (either 05V range or 010V range using selector switches on the rear of the module). When a step is selected, outputs AD will each produce a voltage determined by the front panel knobs. CV outputs can control modules such as oscillators, filters, LFOs, etc. that use stepped DC voltages.

Individual stages can be selected manually using buttons or by applying triggers/gates/-pulses to a stage’s selection input jack. When the pulser is used to drive a sequence, the selection switches can retrigger the sequence starting from that stage.

Slider switches allow to reduce the amount of steps or to split the sequence into the subse-quences.

The ADDRESS input accepts a unipolar voltage from 0 to 5V (trimmable up to 010V) and then quantizes that voltage to select a stage. Can be used with envelope generators, random sources, etc. to select stages in a nonlinear way.

The TRIG. IN jack accepts external clocks, triggers, and gates to advance the sequence linearly. It’s normalled to a saw output of a PULSER.

WARRANTY

This product is covered by the Sputnik Modular warranty, for one year following the date of purchase. This warranty covers any defect in the manufacturing of this product. This warranty does not cover any damage or malfunction caused by incorrect use – such as, but not limited to, power cables connected backwards, excessive voltage levels, or exposure to extreme temperature or moisture levels.

The warranty covers replacement or repair, as decided by Sputnik Modular. Please contact customer service via our website (**www.sputnik-modular.com**) for a return authorization.