

MicroScope Quick-Start Manual

MicroScope is a simple 2-channel Eurorack oscilloscope built with a minimal number of easily-available parts.

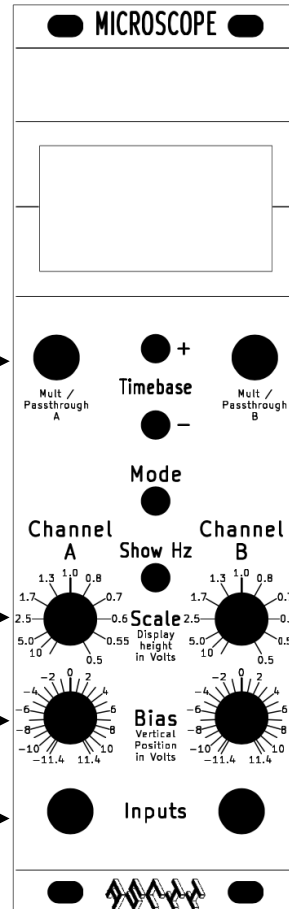
It is based on an Arduino Nano with open-source code hosted on the ASCII github: <http://github.com/Blinken-Lights/ASCII/tree/main/MicroScope%202022>

A 'pass - through' jack, directly connected to the main CV input with **no short circuit protection**. This reduces the needs for mults in your system - a signal can be shown on MicroScope then patched out of the 'pass - through' jack into a CV / audio input on another module

Scale the CV signal. The numbers correspond to the 'height' of the screen at each setting. For instance, at the maximum setting, signals of 0.5V amplitude will fill the screen height

Adjust the CV signal up or down on the MicroScope screen. Very sensitive, because it can bias signals from almost the entire $\pm 12V$ range

The main CV input for the channel. Tolerant of the full range of Eurorack voltages, $\pm 12V$



Timebase \pm : Increase and decrease the timebase. After each change, the width of the screen in seconds will briefly show at the top of the screen.

Timebases below 0.2048s will collect an entire snapshot of samples before updating the screen, and will attempt to 'lock' a waveform on screen using Edge-Triggering.

Timebases above 0.2048s will run in 'Scan' mode, continuously displaying new samples sweeping across the screen, and will not attempt to 'lock' a waveform on screen.

Mode : Toggle between Time/Voltage Plot and VectorScope modes. VectorScope displays Channel A on the horizontal axis and Channel B on the vertical axis

Show Hz : Attempt to determine the frequency of the signal on Channel A, and display it at the bottom of the screen

MicroScope has 2 channels, A and B. Knobs and jacks on the left control A, and on the right, B. The frequency and edge-triggered features correspond to channel A.