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μCVC

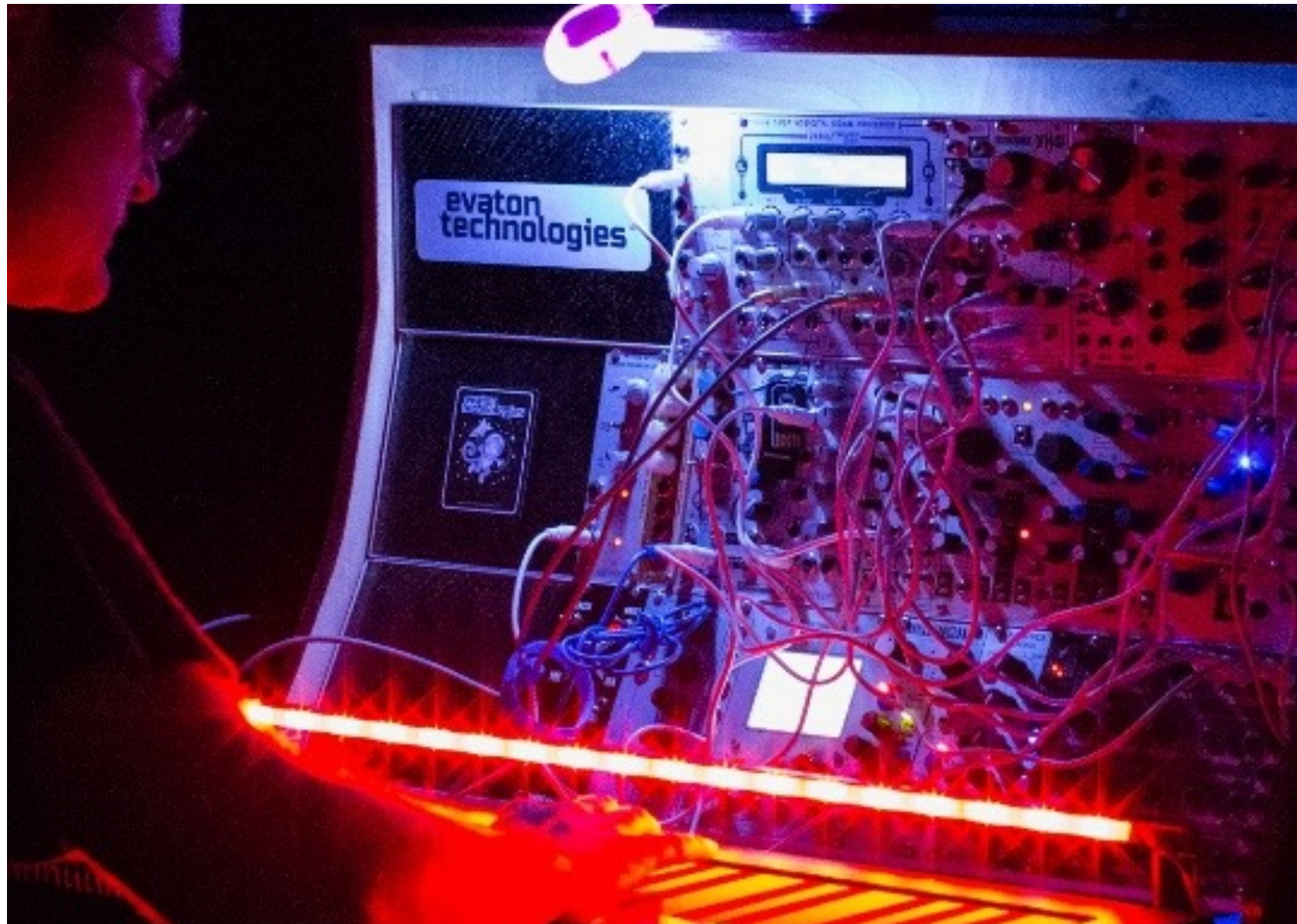
Russell Hoffman

Eurorack Control Voltage Interface for the

HAKEN AUDIO

Continuum Fingerboard

Control Eurorack via Continuum



μCVC “Micro-CVC”

- A Scaled-down version of the Haken Audio CVC “Continuum Voltage Converter”
- 6HP Eurorack module
- Allows a single finger on the Continuum surface to control up to 4 CV's plus a gate
- Can be daisy-chained for duophony
- 16-bit Data transfer via high speed serial

A Brief History

- First, there was the CVC
- At ContinuuCon '16, I met Lippold Haken
- Through a collaboration, the μ CVC was born

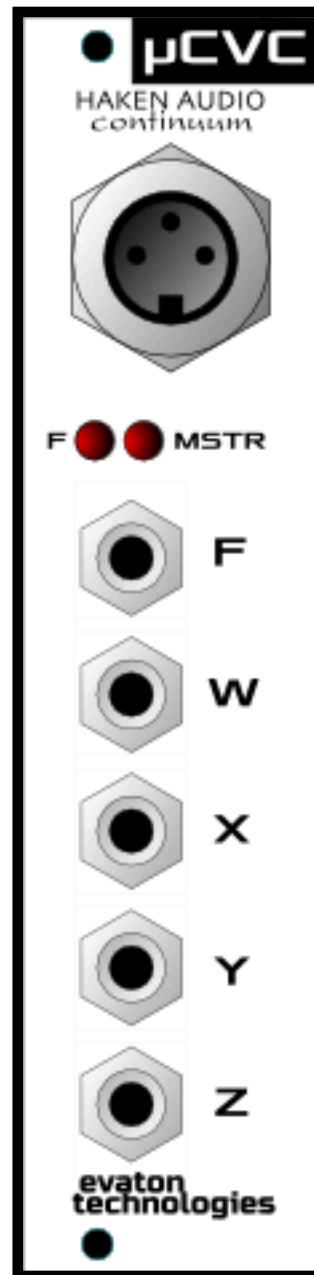
Front Panel

Continuum
Connnection

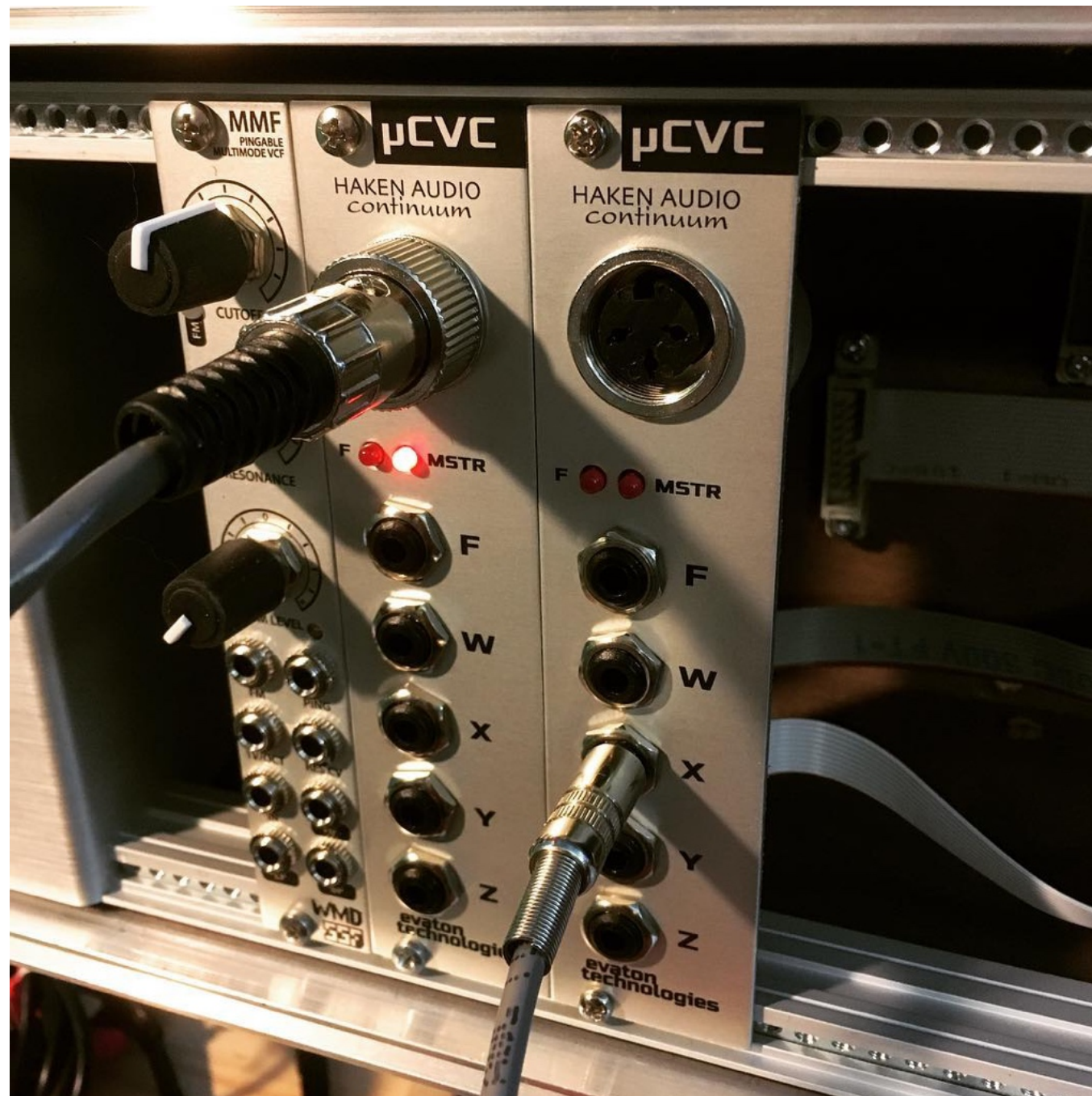
LEDs

F (Finger GATE)

W,X,Y,Z



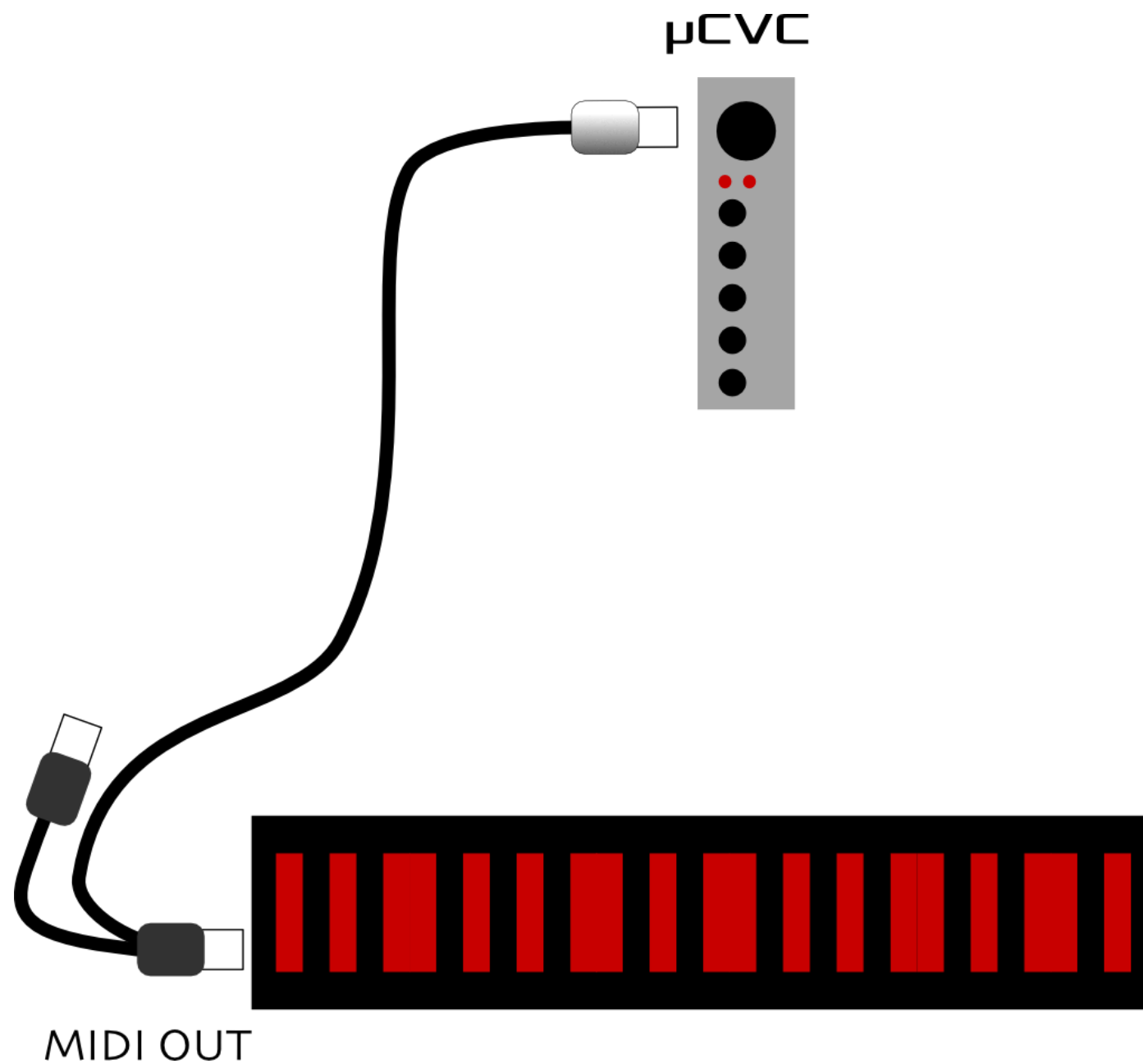
Connections



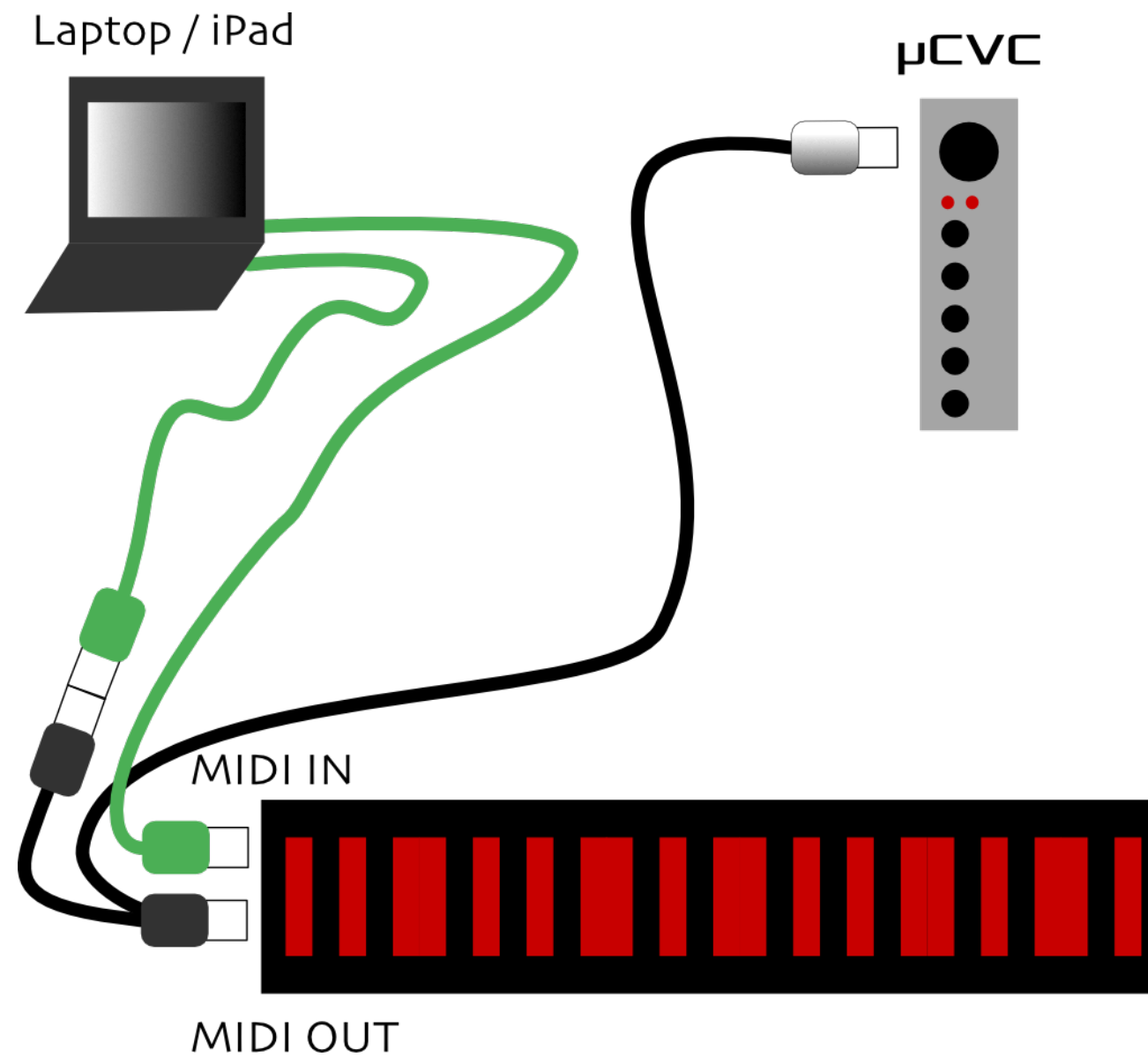
ContinuuCable?



Synth Only

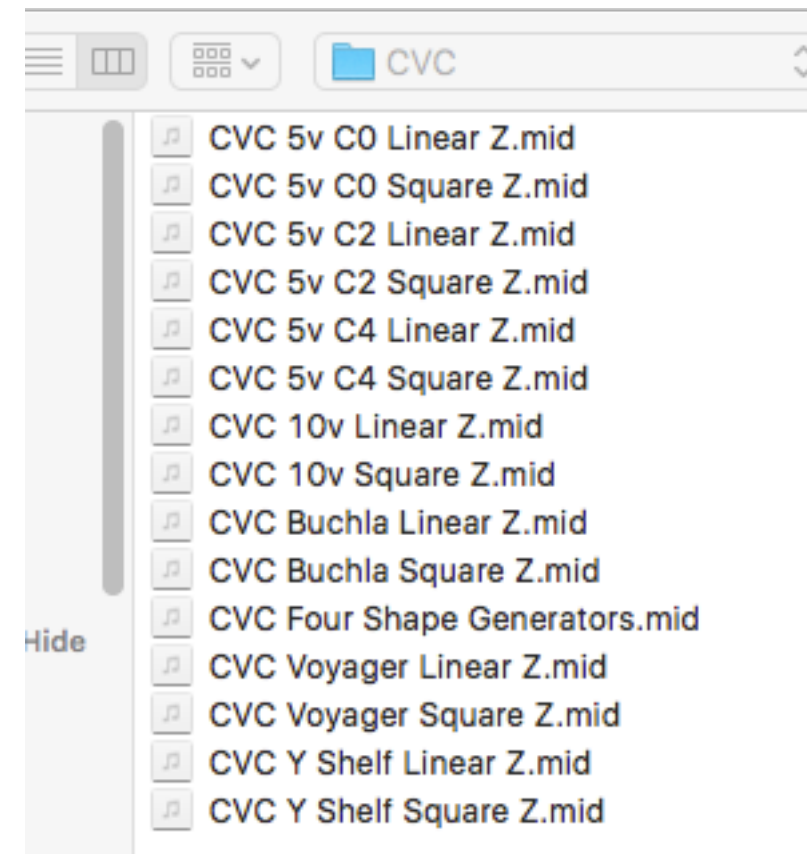


MIDI Thru

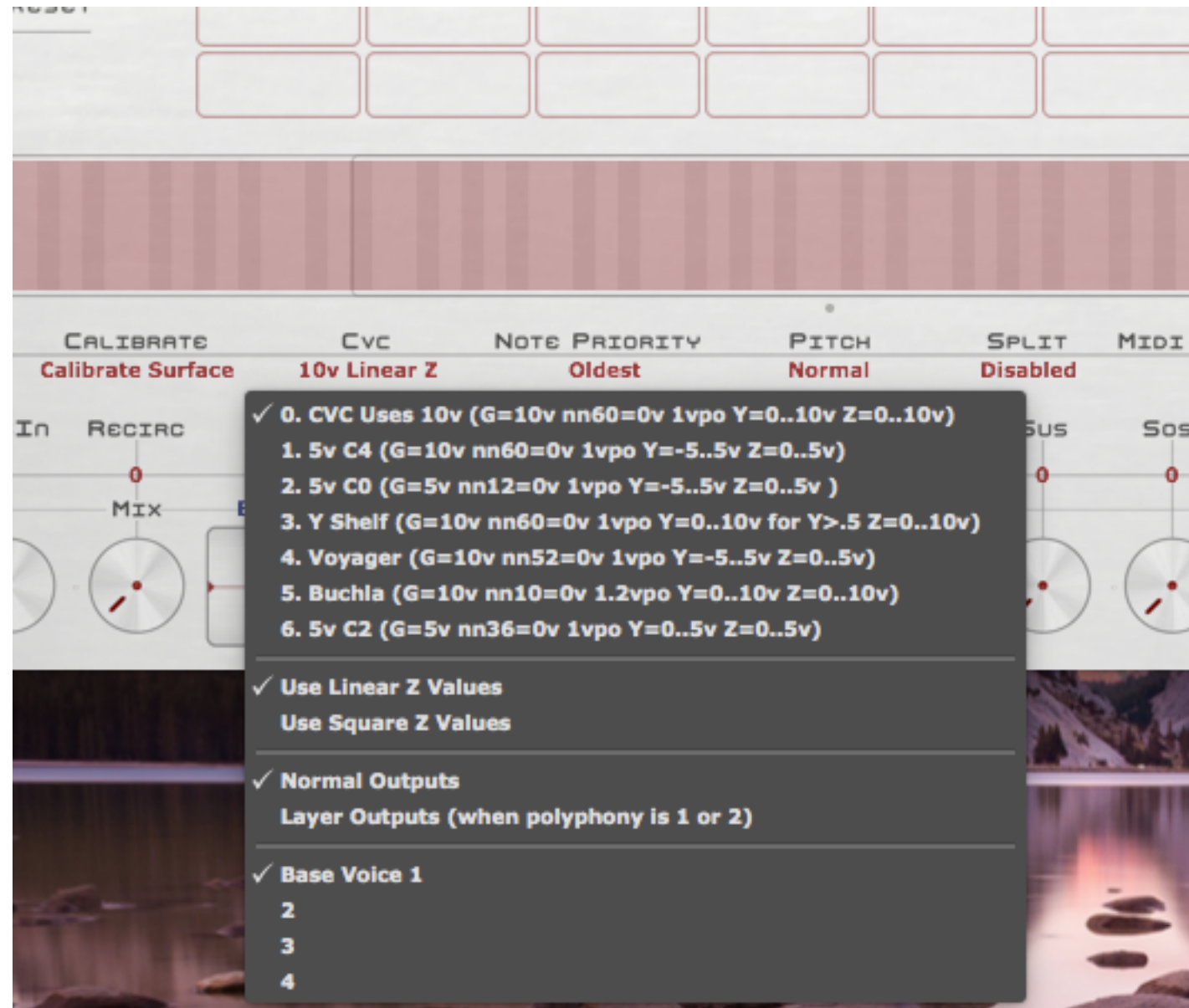


CVC Presets

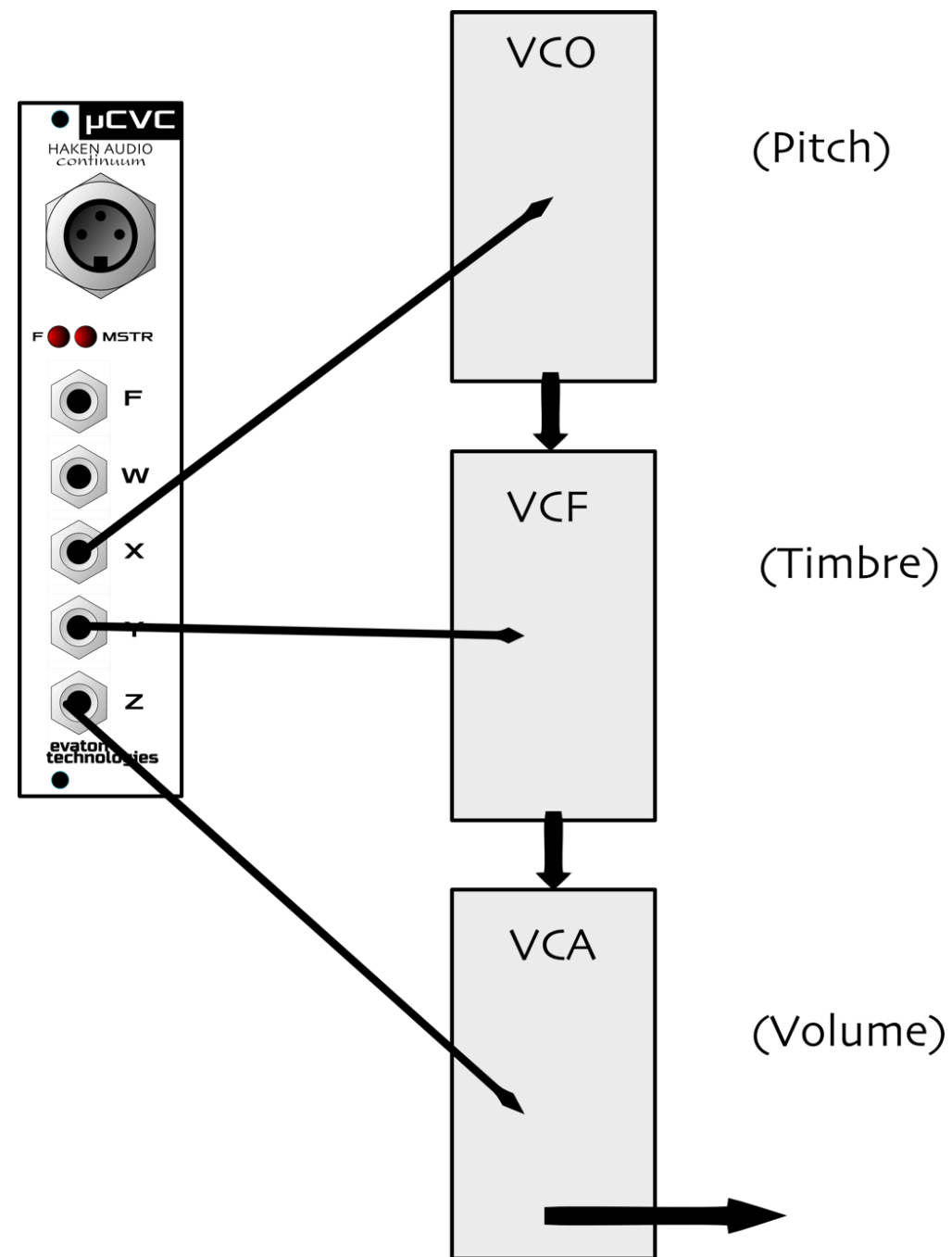
- Look in the Presets under CVC Category
- Handy shortcuts to common CVC configs
- Especially for setting which note is 0V



CVC manual setup



Simple Patch



Continuum Plus Modular

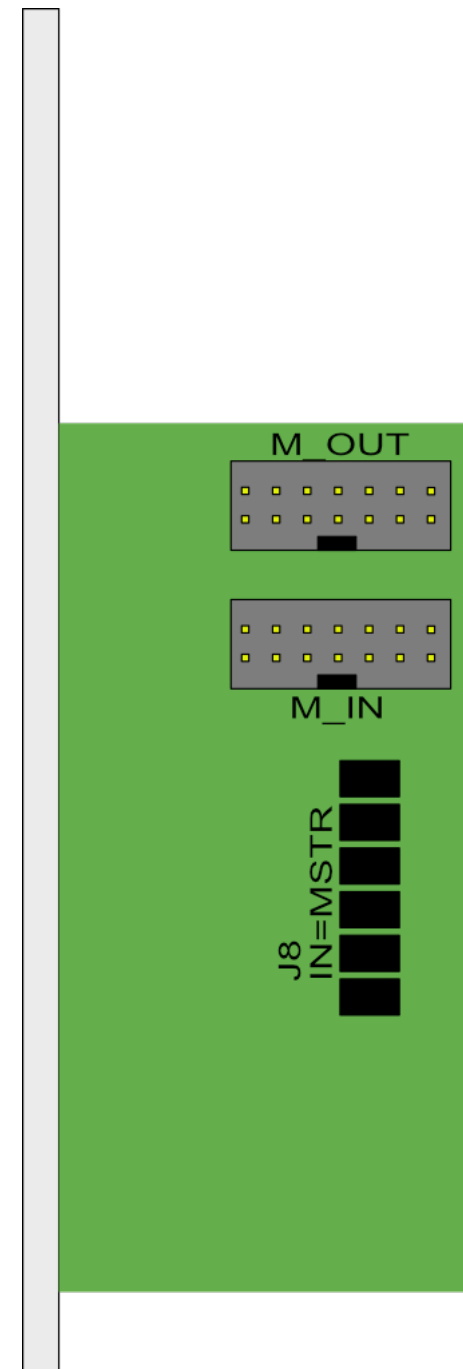
- The internal sound engine of the Continuum still plays while outputting data to the CVC
- Thus, if you run modular audio out and Continuum audio out to a mixer, you get both

Duophony

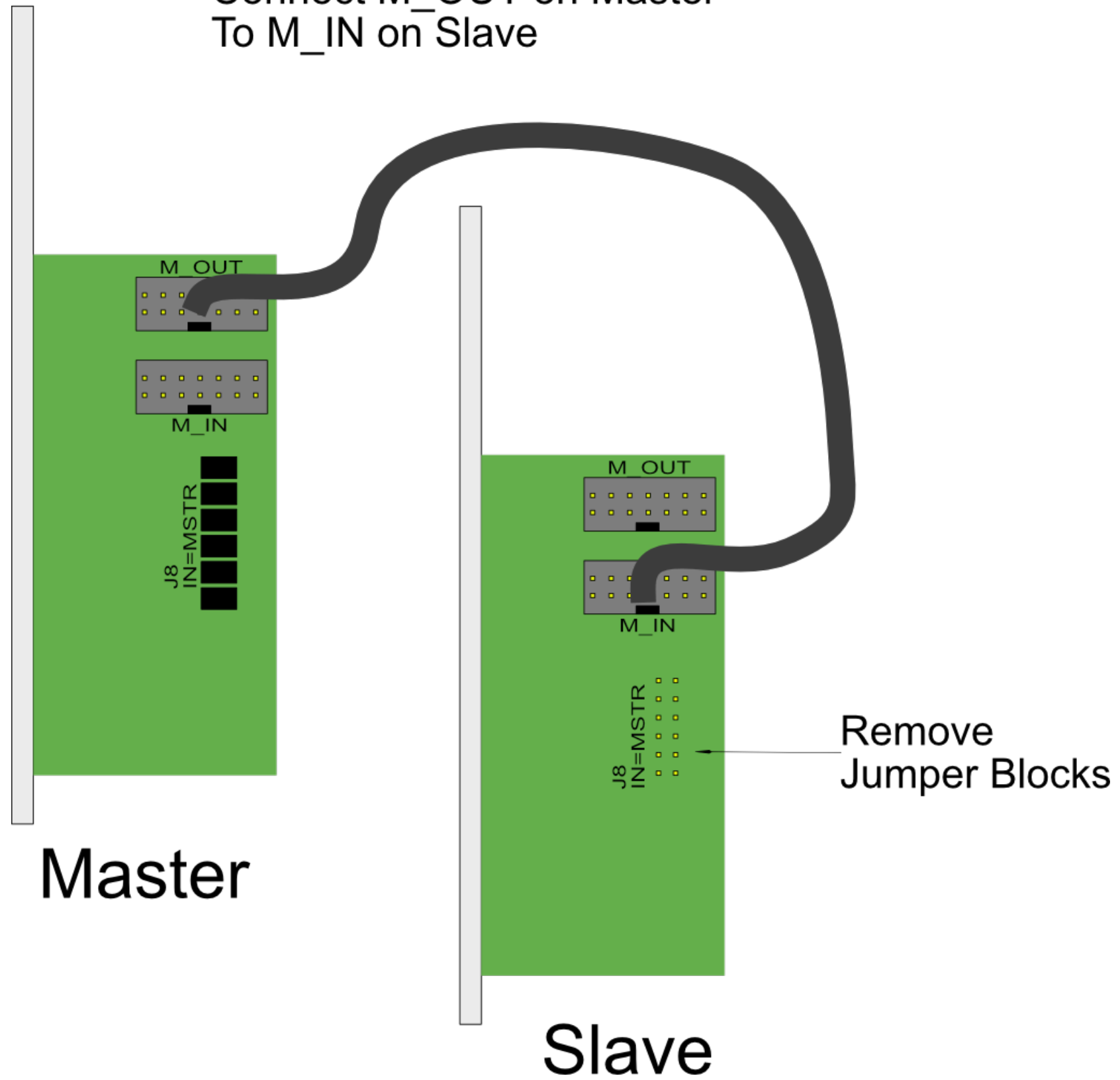
- Add a second μ CVC for duophonic play
- Only one ContinuuCable needed
- Second μ CVC receives data from first
- Daisy-chain cable behind the front panel

Duophony Hookup

- Not a band name
- Connect via ribbon
- Remove jumpers from slave

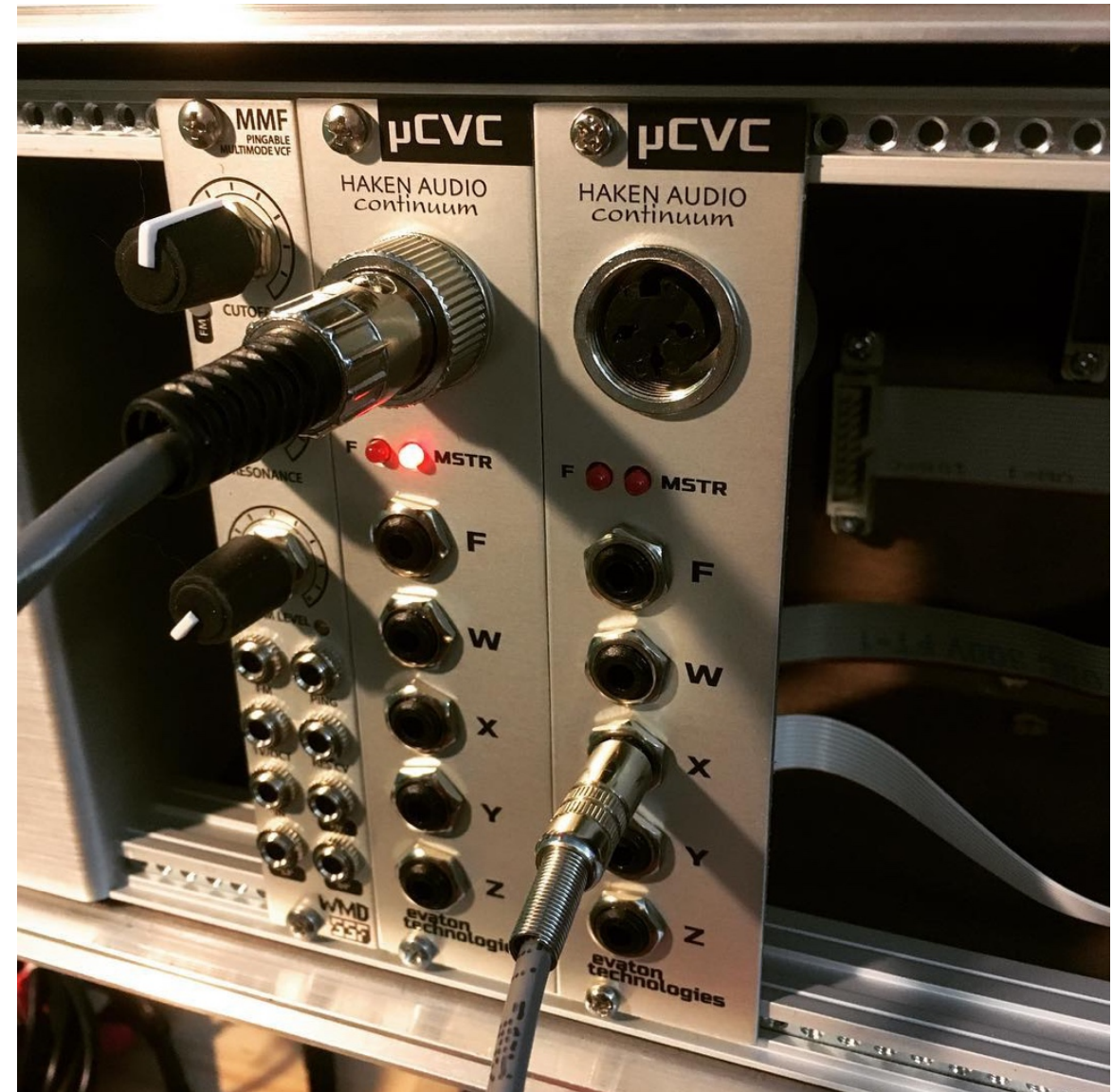


Connect M_OUT on Master
To M_IN on Slave



In Practice

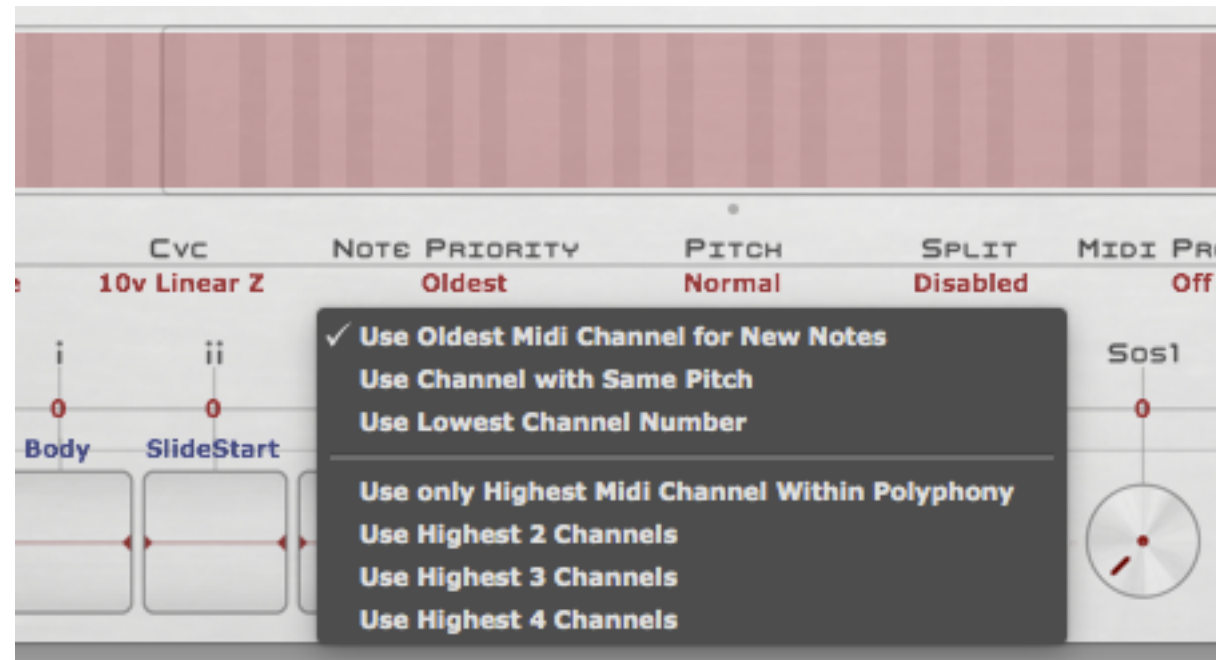
- MSTR LED shows which μ CVC to plug cable into
- F LEDs light on each, depending on finger assignment



Finger Assignments

- In single μ CVC mode, it's easy - only tracks one finger
- In Duophonic mode, Continuum Editor selects assignment mode
- Note that Eurorack uses positive 1V/octave
- Most Eurorack tolerates 10V CV's

Finger Assignment



Couple closing notes

- μ CVC requires new Continuum Firmware
- Lippold has agreed to make an early trial version available before it gets rolled into an official release
- I have a few hand-built units available at ContinuuCon with special pricing
- Additional units in about 6-8 weeks
- One-off 5U can be available on request

Questions?

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