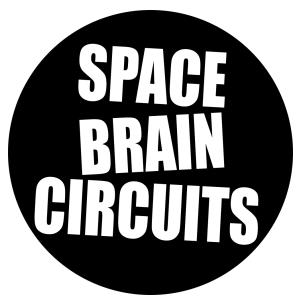


# POLY SEQUENCER

## Windows Firmware Manual



### Things you will need:

- Mini USB cable
- Small object with narrow tip (toothpick, paperclip, etc.)
- Windows Computer

### 1. Download firmware files.

- Go here: <https://github.com/SpaceBrainCircuits/PolySequencer/tree/main/PolySequencerV3>

A screenshot of a GitHub repository page for "PolySequencer". The repository is public and has one branch and no tags. The main file list includes "PolySequencerV2", "PolySequencerV3", and several PDF files ("OperatorsManual1.0.pdf", "OperatorsManual2.1.pdf", "OperatorsManual2.3.pdf", "OperatorsManual2.4.pdf"). On the right side, there are download options: a "Code" button (circled in red), a "Clone" section with "HTTPS", "SSH", and "GitHub CLI" links, and a "Download ZIP" button (also circled in red).

AustinLuberda revised locations for V2

- PolySequencerV2 revised locations for
- PolySequencerV3 added V3 files and I
- OperatorsManual1.0.pdf added previous ope
- OperatorsManual2.1.pdf added previous ope
- OperatorsManual2.3.pdf added previous ope
- OperatorsManual2.4.pdf revised operators m

Local

Clone

HTTPS SSH GitHub CLI

<https://github.com/SpaceBrainCircuits/PolySequencer>

Clone using the web URL.

Open with GitHub Desktop

Download ZIP

- Download files by clicking **Code** and **Download Zip**.

### 2. Right click the zip file, and Extract All...

A screenshot of a Windows context menu for a file named "PolySequencer-". The menu includes "Open", "Open in new window", "Share with Skype", and "Extract All..." (which is circled in red). Below the menu, a list of files shows entries like "PXL\_20241119\_1" with various timestamps and sizes.

### 3. Navigate to firmware upload directory.

- PolySequencerV3 -> Firmware -> Windows -> (Firmware of choice)

Poly Sequencer > PolySequencer > PolySequencerV3 > Firmware > Windows > PolySequencer 3.1			
Name	Date modified	Type	Size
env	11/26/2024 10:03 PM	File folder	
Notes.txt	11/26/2024 10:05 PM	Text Document	0 KB
Upload.exe	3/20/2022 10:41 AM	Application	5,621 KB

### 4. Power on the Poly Sequencer and plug the Poly Sequencer into the computer using a MiniUSB cable.

### 5. Using a toothpick (or similar), press the reset button below the Poly Sequencer faceplate.

- The Poly Sequencer will start listening for new firmware.



### 6. Double click Upload.exe file.

**Note:** Perform this operation within 8 seconds of pressing the reset button, otherwise, you will need to press the reset button again.

```
PolySequencer.hex
Uploading Firmware now...
Connecting to programmer: .
Found programmer: Id = "CATERIN"; type = S
    Software Version = 1.0; No Hardware Version given.
Programmer supports auto addr increment.
Programmer supports buffered memory access with bufsize=128 bytes.

Programmer supports the following devices:
    Device code: 0x44

avrduude.exe: AVR device initialized and ready to accept instructions

Reading | ##### | 100% 0.02s
avrduude.exe: Device signature = 0x1e9587 (probably m32u4)
avrduude.exe: NOTE: "flash" memory has been specified, an erase cycle will be
To disable this feature, specify the -D option.
avrduude.exe: erasing chip
avrduude.exe: reading input file "./env\scripts\PolySequencer.hex"
avrduude.exe: writing flash (25368 bytes)

Writing | ##### | 100% 2.68s
avrduude.exe: 25368 bytes of flash written
avrduude.exe: verifying flash memory against ./env\scripts\PolySequencer.hex
avrduude.exe: load data flash data from input file ./env\scripts\PolySequencer.hex
avrduude.exe: input file ./env\scripts\PolySequencer.hex contains 25368 bytes
avrduude.exe: reading on-chip flash data:

Reading | ##### | 100% 0.75s
avrduude.exe: verifying ...
avrduude.exe: 25368 bytes of flash verified

avrduude.exe: safemode: Fuses OK (E:CB, H:D0, L:FF)
avrduude.exe done. Thank you.

Finished!
```

### 7. If you see the image on the right, Firmware is now installed!

### 8. Restart the Poly Sequencer.

### 9. Troubleshooting:

If you do not see the screen as shown on the right.

1. Verify your USB is connected to both the Poly Sequencer and your computer.

2. Make sure you are clicking upload.exe within 8 seconds of pressing the reset button.

3. Contact me and I will help you! [spacebraincircuits@gmail.com](mailto:spacebraincircuits@gmail.com)