How To Flash And Calibrate Your Qu-Bit Surface

Flash Instructions

In a Chrome browser window, navigate to the Electrosmith Web Programmer.

Once there, connect the Daisy Seed, the yellow backpack on your Qu-Bit module, to your computer using a micro USB cable. (If you are using Windows you may have to reset your USB driver before proceeding. See the Zadig wiki page for full instructions.)

Make sure your module is plugged in and powered via its eurorack power cable.
Put your module into flashable mode by holding down the BOOT button, and pressing the RESET button. Once you release the RESET button you can let go of the BOOT button.

Connect the module as a DFU device by clicking the “Connect” button at the top of the Web Programmer page.

In the dialog box that opens, select “DFU in FS Mode” and then click “Connect.”

Download, unzip, and drag the firmware file (.bin) into the File Window on the Web Programmer page. The Window’s border should turn green once the file is loaded.

Press program to update the firmware. You will be notified once the module is up to date!

Calibration Instructions

1. With no jacks plugged into the CVs of the module, Hold the CHOKE button while you turn the module on. The Voices LED will begin to blink blue.

2. Insert 1V (one octave up from root on your sequencer) from a reliable source and tap voices again. The LED will begin blinking
purple.

3. Insert 3V (three octaves up from root on your sequencer) from a reliable source and tap voices again. The module is now calibrated.

If, for some reason, the module is accidentally calibrated incorrectly, and there are no available accurate CV sources to recalibrate it, the calibration can be reset to the default factory settings by pressing Trig from within the Calibration Mode.