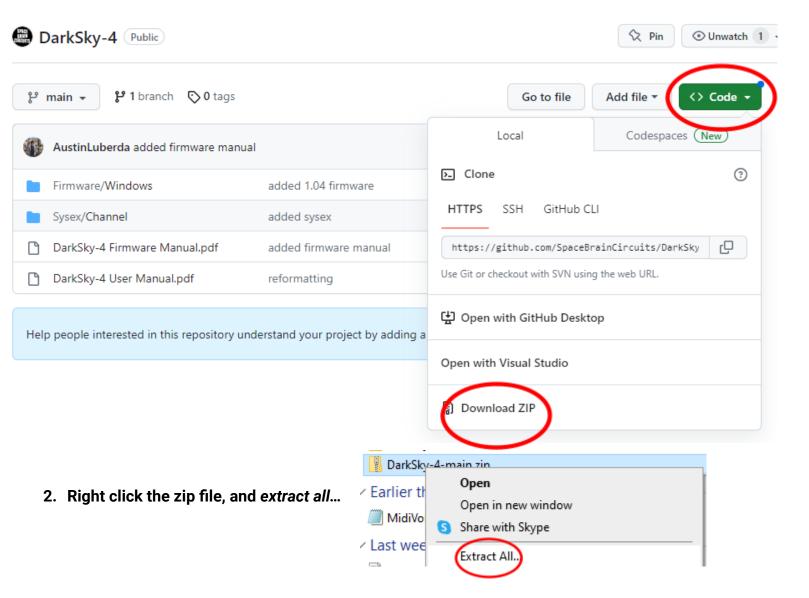


## **Windows Firmware Manual**

## Things you will need:

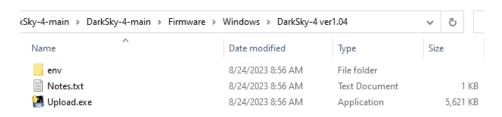
MiniUSB cable Small object with narrow tip (toothpick, paperclip, etc.) Computer

- 1. Download firmware files.
  - a. Go here: <a href="https://github.com/SpaceBrainCircuits/DarkSky-4">https://github.com/SpaceBrainCircuits/DarkSky-4</a>
  - b. Download files by clicking Code and Download Zip.



## 3. Navigate to firmware upload directory.

a. Firmware -> Windows -> DarkSky-4 ver1.04



- 4. Power on DarkSky-4 and plug the DarkSky-4 into the computer using a MiniUSB cable.
- 5. Using A toothpick (or similar), press the reset button on the bottom left hand side of DarkSky-4.
  - a. DarkSky-4 will start listening for new firmware.



- 6. Double click Upload.exe file.
- 7. If you see the image on the right, Firmware is now installed!
- 8. Restart DarkSky-4.

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

## 9. Troubleshooting

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

- Verify your USB is connected to both DarkSky-4 and your computer.
- 2. Make sure you are clicking upload.exe within 8 seconds of pressing the reset button.
- onnecting to programmer: . ound programmer: Id = "CATERIN"; type = S Software Version = 1.0; No Hardware Version given. rrogrammer supports auto addr increment. rrogrammer supports buffered memory access with buffersize=128 bytes. rogrammer supports the following devices: Device code: 0x44 vrdude.exe: AVR device initialized and ready to accept instructions avrdude.exe: Device signature = 0x1e9587 (probably m32u4) avrdude.exe: NOTE: "flash" memory has been specified, an erase cycle will be performed To disable this feature, specify the -D option. avrdude.exe: erasing chip avrdude.exe: reading input file "./env\scripts\FourVoice1.04.hex" avrdude.exe: writing flash (26654 bytes): avrdude.exe: 26654 bytes of flash written avrdude.exe: verifying flash memory against ./env\scripts\FourVoice1.04.hex:
  avrdude.exe: load data flash data from input file ./env\scripts\FourVoice1.04.hex:
  avrdude.exe: input file ./env\scripts\FourVoice1.04.hex contains 26654 bytes vrdude.exe: reading on-chip flash data: Reading | ########### | 100% 0.73s avrdude.exe: verifying ... avrdude.exe: 26654 bytes of flash verified vrdude.exe: safemode: Fuses OK (E:CB, H:D0, L:FF) exe done. Thank you. Finished!

3. Contact me and I will help you! spacebraincircuits@gmail.com