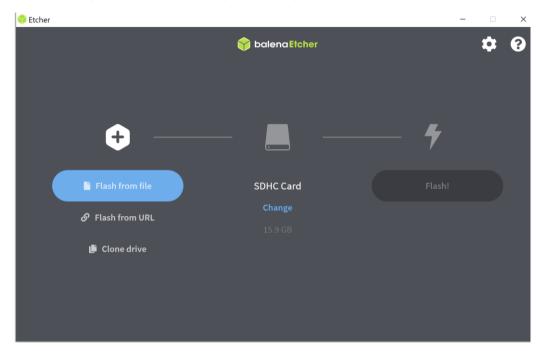
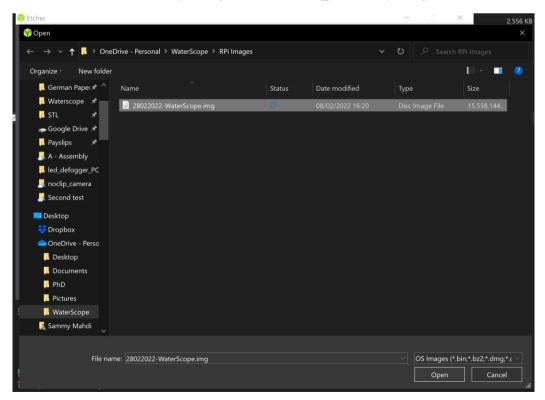
WaterScope Firmware/Software programming v1

Raspberry Pi SD card flashing

- 1. Download and install "Balena Etcher"
- 2. Insert empty SD card into the computer and open "Balena Etcher"



3. Select the latest WaterScope image i.e. (28022022_WaterScope.img)

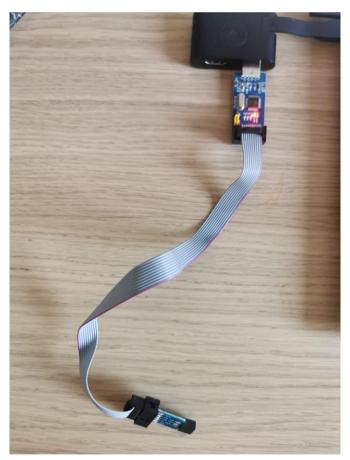


4. Press "Flash" and wait for the process to finish (~5 min)



Programming the PCB firmware

1. Insert programmer into the USB port and install <u>USBAsp driver</u> if using for the first time.



2. Insert programmer into PCB as shown



3. Open terminal and go the WaterScope firmware folder



4. Burn the fuses with:

avrdude -C avrdude.conf -v -p atmega328p -c usbasp-clone -Pusb -e -U lock:w:0x3F:m -U efuse:w:0xFD:m -U hfuse:w:0xDE:m -U lfuse:w:0xFF:m

5. Burn firmware with:

avrdude -c usbasp-clone -p m328p -u -U flash:w:rtc_dual_36.hex:i

6. Check that the programming is complete: