Drink Minder v2.2 by ~Red~#4028
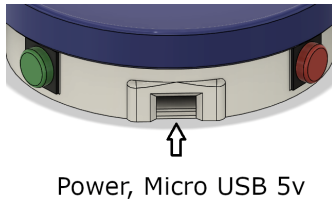
Getting setup

1. Connect a Micro usb cable from the drink minder to your computer

Power, Micro USB 5v

2. Open Chrome or Edge and go to https://serial.huhn.me/

*This is a basic browser based serial terminal, you may use another terminal of your choice such as the one in the Arduino IDE but other terminals are untested and may exhibit undesirable operation.

3. Click connect and select the COM Port. If you have multiple COM ports available, try unplugging your drink minder and plugging
it back in to see which one disappears from the list. (or just try all of them)
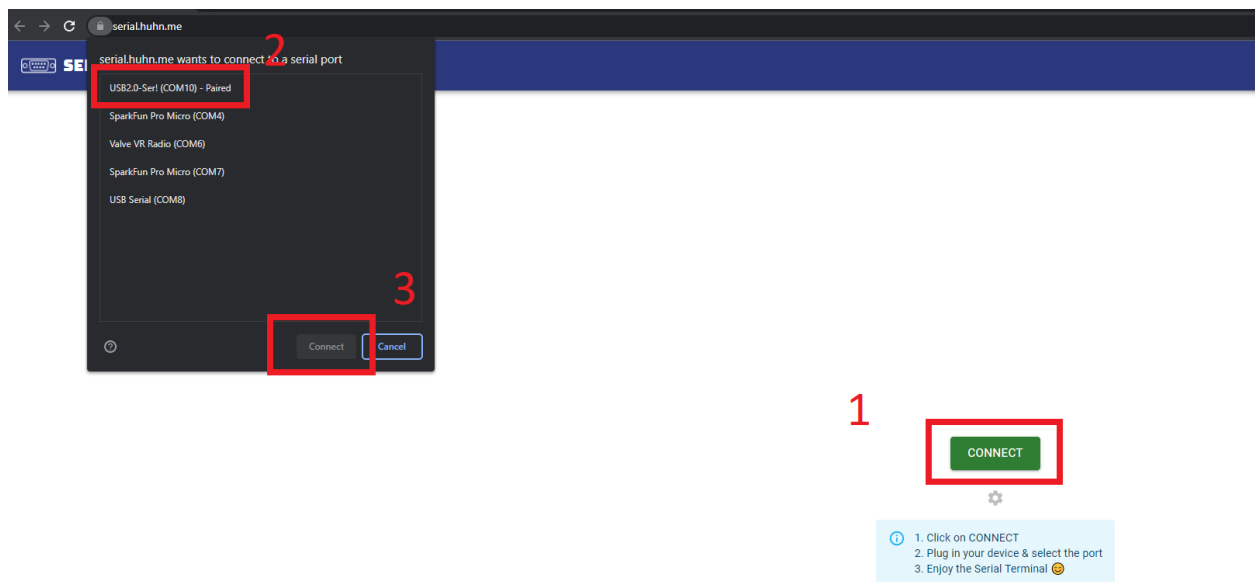
3. You should get a looping "Welcome to first time setup! Press enter to continue" message


```
Welcome to first time setup! Press enter to continue

Welcome to first time setup! Press enter to continue

Welcome to first time setup! Press enter to continue

Welcome to first time setup! Press enter to continue

Welcome to first time setup! Press enter to continue
```
Input

Made w

4. Press enter then read and follow the prompts. The menu options will be presented one at a time, to enter a configuration menu type "y" and press enter or skip to the next menu by typing "n" and press enter.

5. Note! it will ask for your VRC client ip address. This is the ip of the computer you are running VRC on. Easiest way to find it is this,
Open start menu (or press win key) > Type: cmd > press enter > Type: ipconfig > press enter. This will list out all network connections.
What you are looking for looks like this "IPv4 Address . . . . :
192.168.1.12" That four section number is your computers ip
address. Enter all four sections including the four "."

User configurable fields are as follows (required):
1. WiFi ssid (This is the name of your WiFi network)
2. WiFi password
3. VRC client ip address (the address of the computer running VRC)
4. OBS overlay direction (vertical or horizontal)

6. If all is successful it will connect and start transmitting values to your computer.

*If WiFi connection is unsuccessful the unit will restart, and try again. If it continuously fails, try entering the setup again and re-entering your WiFi information. After a restart or power on, the initialization will give a 6 second count down allowing you to enter the setup by typing "y" and pressing enter.

```
Attempting to connect to WiFi 17
Attempting to connect to WiFi 18
Attempting to connect to WiFi 19
Attempting to connect to WiFi 20
Connection failed, restarting
 ets Jan  8 2013,rst cause:1, boot mode:(3,7)
load 0x4010f000, len 3460, room 16
tail 4
chksum 0xcc
load 0x3fff20b8, len 40, room 4
tail 4
chksum 0xc9
csum 0xc9
v00046720
~ld


Drink Minder v2.1 by ~Red~#4028

Change log: v2.1
1. Changed conditions of cup sync, less likely to show lower level than expected in cup on pickup
2. Added OBS overlay position movement support through OSC for OBS
3. Editied text instructions for better setup
4. Fixed text line seperation on terminal output and added filter for other line endings
5. Added 'First time setup' dialog as well as forcing boot hold for first time setup
6. Added stuff, you'll know... if you watch the terminal ;)

Note! once unit is connected to wifi and transmitting you may return
to this point by typing 'r' in a terminal, this restarts the unit
also when a restart is requested, you can elect to tigger the first time setup again

Enter setup? type y then press enter
6
5
```

Input

```
|
```

7. After successful connection, you will need to set the Cup full and Cup empty values. Start with your empty cup on the drink minder, and press the left button (Red) the terminal will show "Set cup empty: " with a value.

```
Sent Drink_Minder_val 0.00
Sent Drink_Minder_cup_sync 0.00
Sent OBS val 536.00
Scale Value: -2820
Sent Drink_Minder_val 0.00
Sent Drink_Minder_cup_sync 0.00
Sent OBS val 536.00

Set cup empty: -2541

Scale Value: -2562
Sent Drink_Minder_val 0.00
Sent Drink_Minder_cup_sync 0.00
Sent OBS val 536.00
Scale Value: -2607
Sent Drink Minder val 0.00
```

8. Fill your cup. place it on the drink minder (if you took it off) and press the right button (Green) the terminal will show "Set cup full: " with a value.

9. Note! If you change cups later you will need to repeat steps 7 and 8.

10. After you have successfully setup and confirmed the operation of your Drink Minder, you may disconnect it from your computer and use a generic usb wall charger or power bank. Note! you will have to reconnect it to your computer to change settings **except Cup full and Cup Empty

Drink Full ⇒   ⇦ Drink empty

⇧
Power, Micro USB 5v
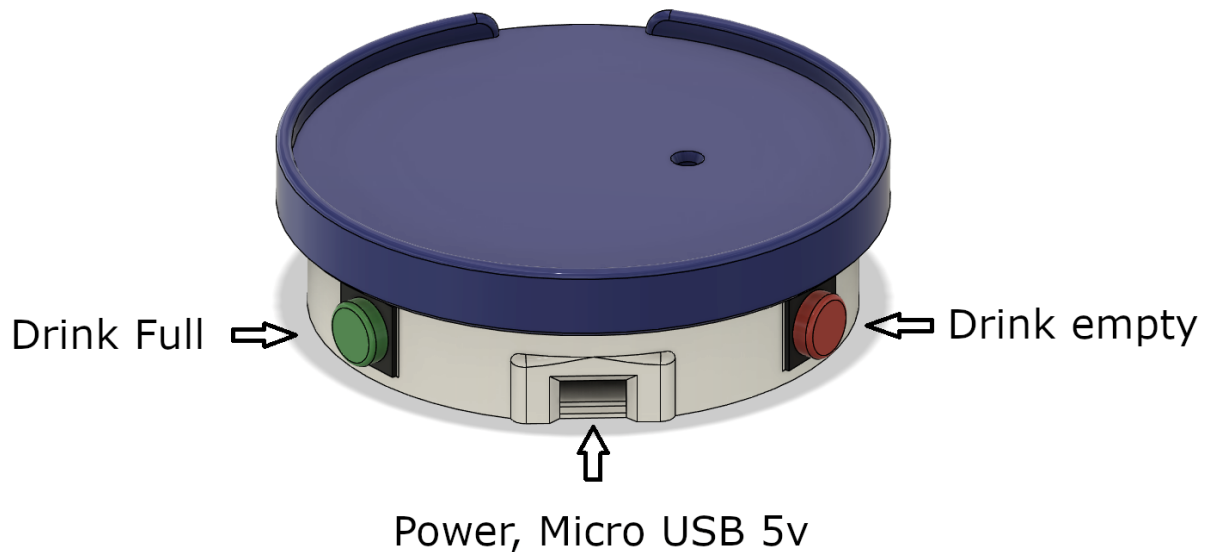
Function notes

- All setup options can be individually changed by typing "y" and pressing enter in the terminal when prompted just after a power on. Or after a restart.

- A connected and running Drink Minder can be restarted by opening a terminal and typing "r" then pressing enter. This will also give the option to restart it in to "first time setup"

- "First time Setup" will prevent the unit from booting until WiFi, Password and IP are re-entered.

- OBS support is very beta at the moment, and requires OSC for OBS App. tested and known working with v2.7

Output notes

- OSC message sent to: /avatar/parameters/Drink_Minder_cup_sync
  Type: Float

  Cup on drink minder = Value from 0.00 to 1.00 equal to level in cup
  Cup off drink minder = does NOT report

- OSC message sent to: /avatar/parameters/Drink_Minder_Pickup
  Type: Bool

  Cup on drink minder = 0
  Cup off drink minder = 1

(Legacy) OSC message sent to: /avatar/parameters/Drink_Minder_val
Type: Float

    Cup on drink minder = Value from 0.00 to 1.00 equal to level in cup
    Cup off drink minder = -1.00

- OSC message sent to: scene/Drink_Minder/Color/position/
  Type: Float + Float

  OBS update direction in default Vertical mode
  Cup on drink minder = [x] value of -957 + [y] value of -536 to 536 equal to level in cup
  Cup off drink minder = does NOT report

  OBS update direction in Horizontal mode
  Cup on drink minder = [x] value from -2036 to -957 equal to level in cup + [y] value of -536
  Cup off drink minder = does NOT report

Specs

- Microcontroller: ESP8266
- Sensing element: Load Cell with HX711 AD Converter
- Max capacity: 10LBS (centered)
- Power: 5v 110ma
- 2.4Ghz WiFi