# Optomotor drum manual:

## Remote access of Raspberry pi camera:

#### Setting up raspberry pi to automatically create hotspot on boot:

I followed this guide: <https://www.raspberrypi.com/host-a-hotel-wifi-hotspot/>

The essential steps are as follows:

* Create the hotspot like so
  + $ sudo nmcli device wifi hotspot ssid <hotspot name> password <hotspot password> ifname wlan0
* To find the UUID of the hotspot use $ nmcli connection
* To look at the properties of the hotspot run $ nmcli connection show <hotspot UUID>
* Change the autoconnect property and priority level using the following line
  + $ sudo nmcli connection modify <hotspot UUID> connection.autoconnect yes connection.autoconnect-priority 100

## Hooking up the stepper motor and IR remote circuit

Be careful when connecting wires. I fried an IR sensor by connecting the wrong wires. See the attached data sheet. Also look at the sensor itself, - means ground, S means signal, and the last pin is obviously then 5v power.

Regarding connecting the stepper motor to the stepper motor driver, one needs to hook the two wires that come from the same coil of the motor to pins on the driver that have the same letter. Ie. if black and green wires go to the same coil in the motor, they should be connected to either A1 and A2 or B1 and B2. Ie. same coil wires go to same letter pins on the driver. Which number pins they go to on the driver doesn’t matter, nor does it matter which letter they go to, as long as it’s the same letter.

Heres a nice guide to hooking up a stepper and driver <https://www.makerguides.com/drv8825-stepper-motor-driver-arduino-tutorial/>

And a good youtube video:

<https://www.youtube.com/watch?v=J-8_txDnS3w>

A blueprint of a machine

AI-generated content may be incorrect.