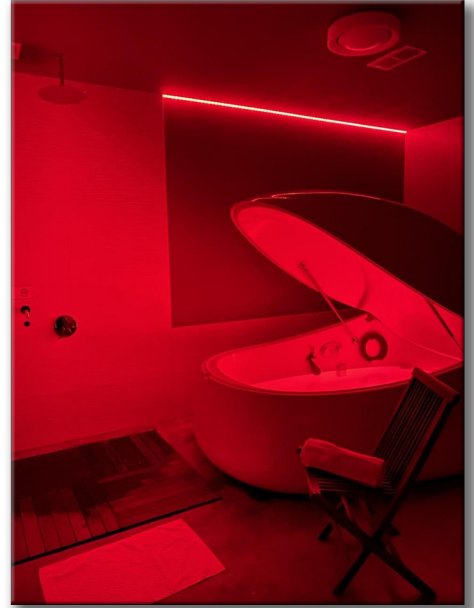
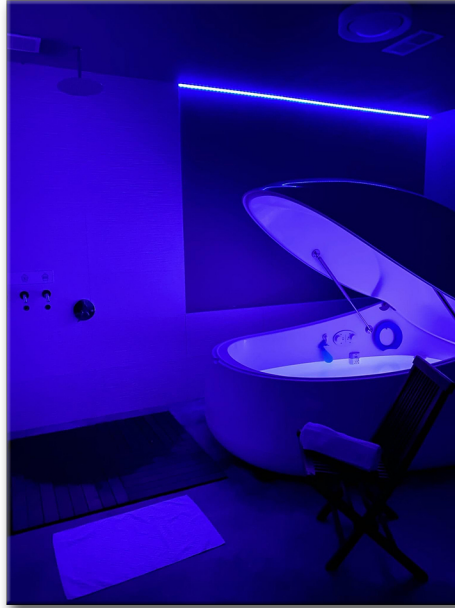
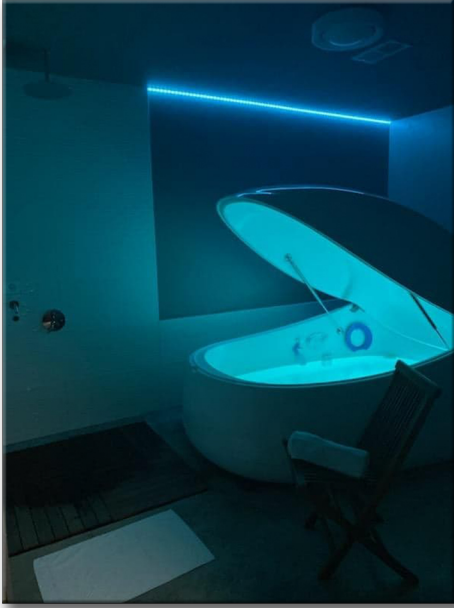


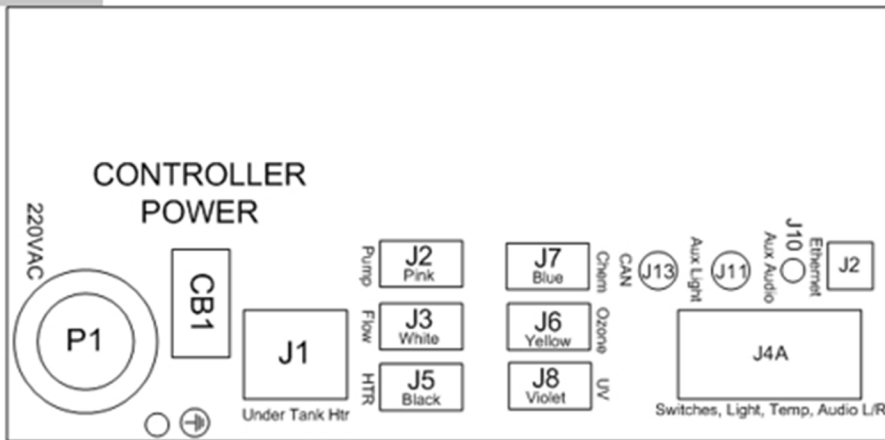
# SUPERIOR FLOAT TANKS

## EXTERNAL LIGHTING SYSTEM



### Component Locations

#### A. External Interface



The Unity controller has a secondary LED light port which can sync an external 4 wire LED light or strip light to the float tank for turning on and off the light as well as matching the color.

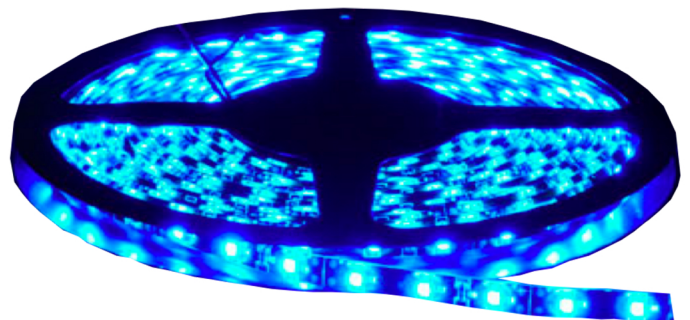
Aux Light is the 6 pin connector J11.

J11 pin out:

1. **Red LED**
2. **+12V**
3. **Green LED**
4. **GND**
5. **Blue LED**
6. **GND**

Pin 1 is the pin to the left of the keying tab (see connector page)

4 Wire LED Strip Lighting



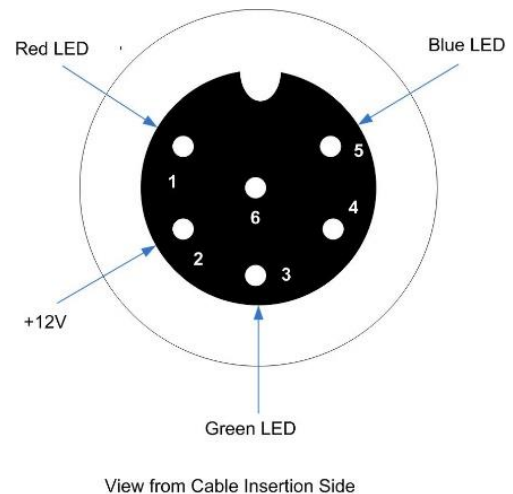
# Unity J11 Auxiliary Light Port Details

## Female Connector (Mouser Part Number 502-6280-6SG-321):

This connector is manufactured by Switchcraft and distributed from Mouser. It is a plastic, 6-pin, standard circular connector which, requires gold contact plating (we use gold, female to female, pins for this connector), and has a wire gauge range of 24AWG to 20AWG. The pins on this connector must be crimped.



Figure 1 J11 Pinout from outside perspective



## Male connector (Mouser Part Number 502-7280-6PG-300):

The part we use, in the Float Tank Control Box, is manufactured by Switchcraft and distributed from Mouser. It is a plastic, 6-pin, standard circular connector which, requires gold contact plating (we use gold, male to female, pins for this connector). The pins on this connector must be crimped.

### Aux Light (J11) male connector pinout:

Pin 1 (Red LED) is connected to J4A, pin 5 which, connects to PCB1TB9, pin 2.

Pin 2 (+12V) is connected to PS1-CN2, pin 1.

Pin 3 (Green LED) is connected to J4A, pin 8 which, connects to PCB1TB9, pin 3.

Pin 4 (GND) is connected to J4A, pin 10 which, connects to PCB1TB1, pin 3.

Pin 5 (Blue LED) is connected to J4A, pin 14 which, connects to PCB1TB9, pin 4.

Pin 6 (GND) is connected to J4A, pin 10 which, connects to PCB1TB1, pin 3.

### LEDs:

The LEDs used with the Float Tank Control Box are common anode. With the current power source, we can supply +12V@1.5A safely from this port (there is some minor overhead built into this figure for future CAN operation).