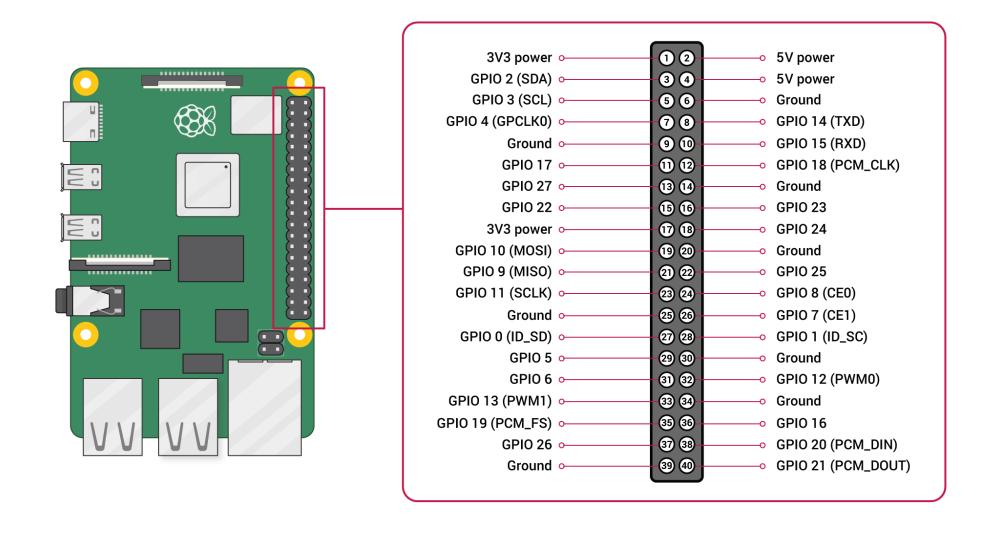
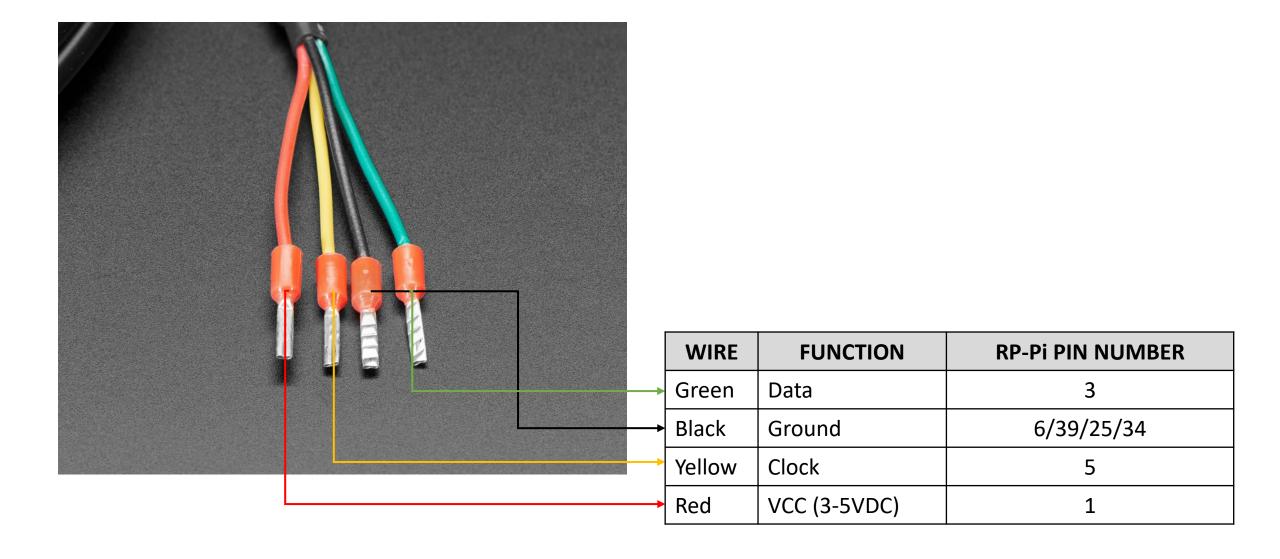
RODENT MONITORING DEVICE



CIRCUIT CONNECTION DETAIL

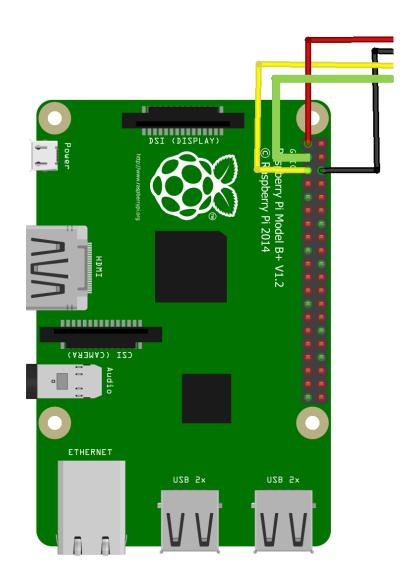
Raspberry Pi Pin detail



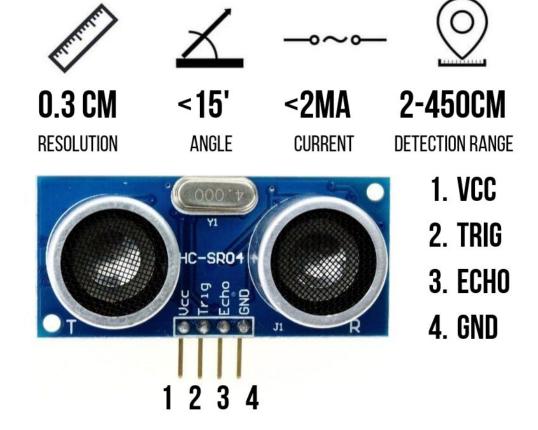


Humidity and Temperature sensor

H/T Sensor connection





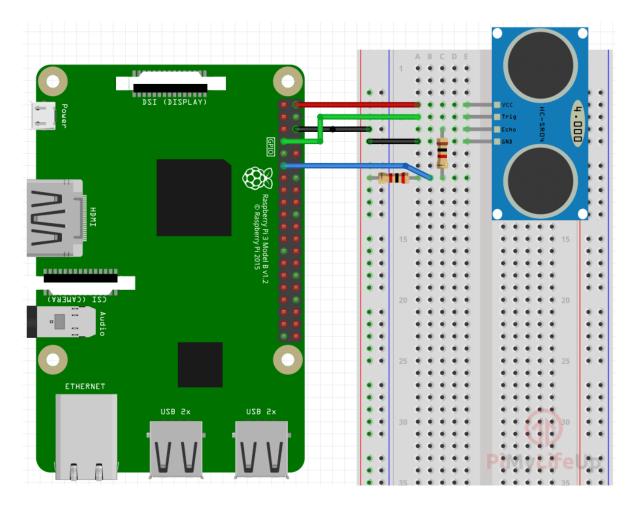


PIN	FUNCTION	RP-Pi PIN NUMBER
1	VCC	2
2	TRIG	7
3	ECHO	11*
4	GND	6

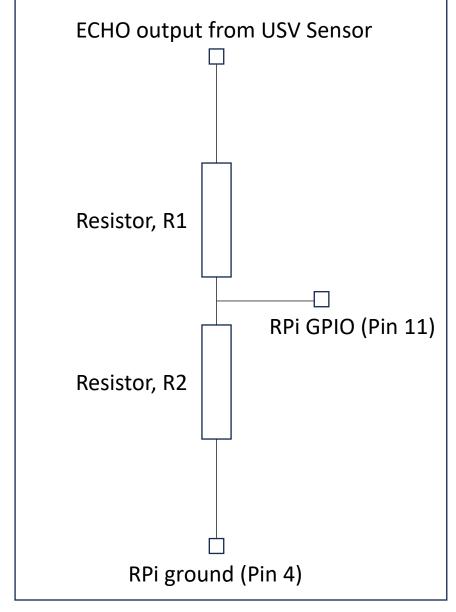
*Do not connect ECHO to pin11 directly. The ECHO output is 5 volts we need reduce it to 3v using a voltage divider circuit.

HC-SR04 Ultrasonic Range sensor

USV Sensor connection



Note: The values of resistors R1 and R2 should be chosen such that R1/R2 = 0.5. Recommended resistor values: R1 = 1K ohm R2 = 2K ohm



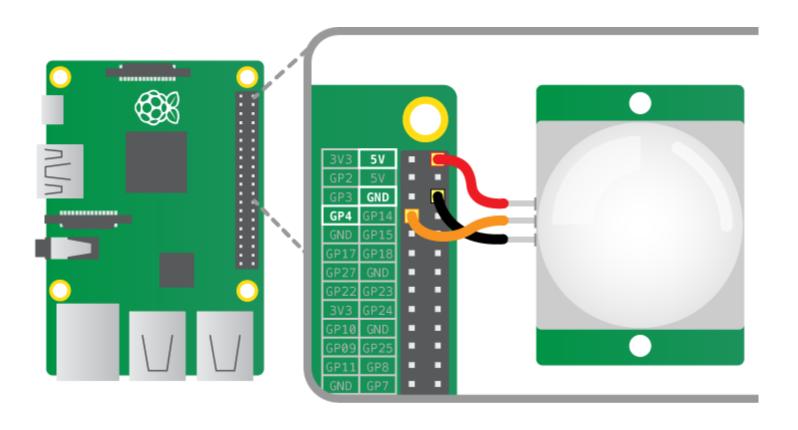
VOLTAGE DIVIDER CIRCUIT



PIN	FUNCTION	RP-Pi PIN NUMBER
1	VCC	2
2	Out	7
3	GND	6

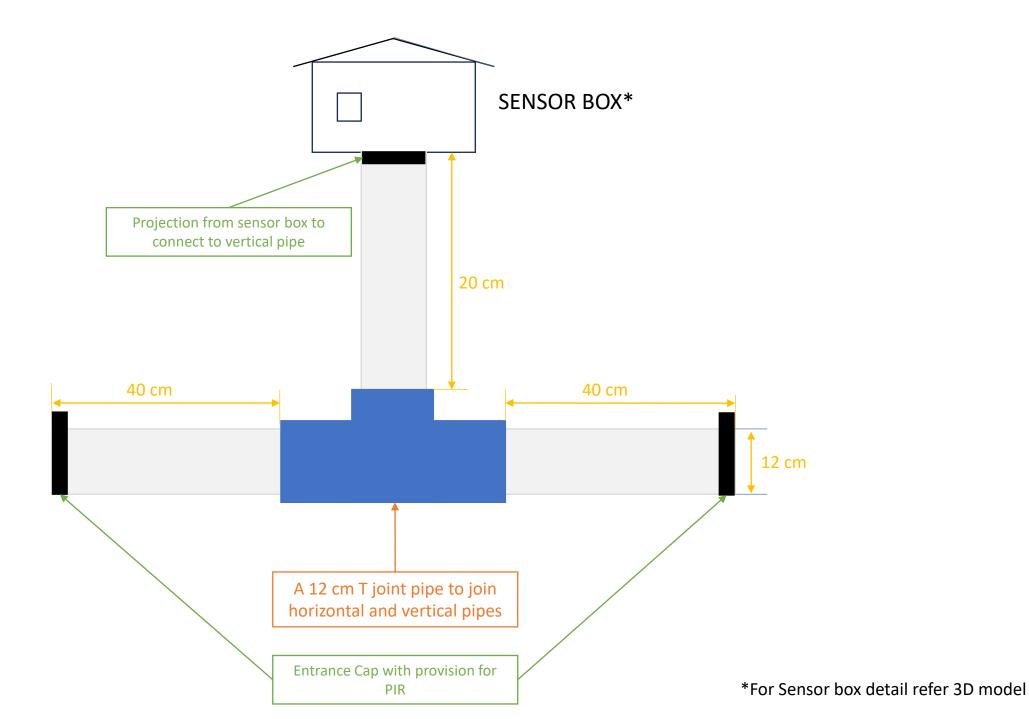
Passive Infrared (PIR) sensor

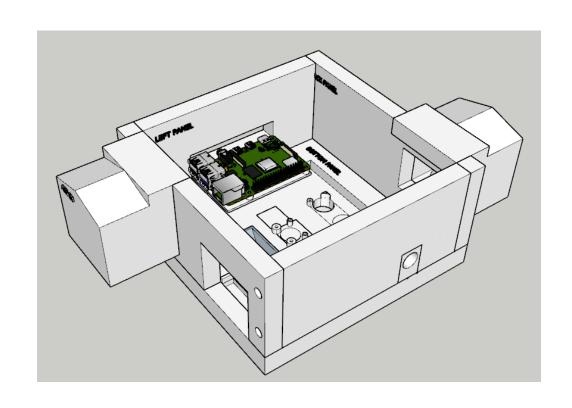
PIR Sensor connection

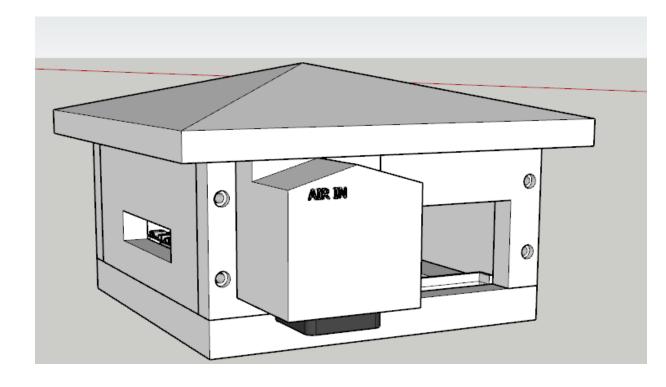


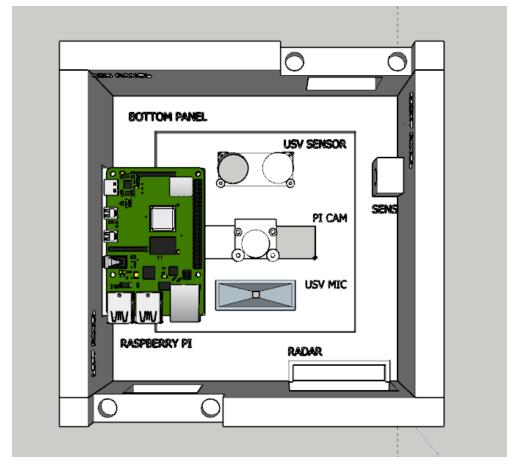
HARDWARE DETAIL

RMD



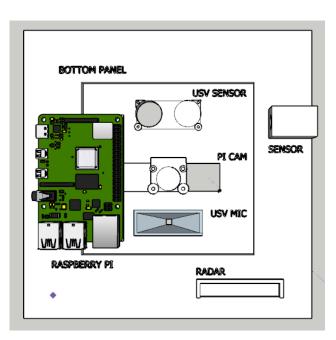


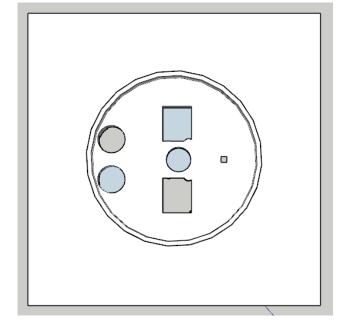


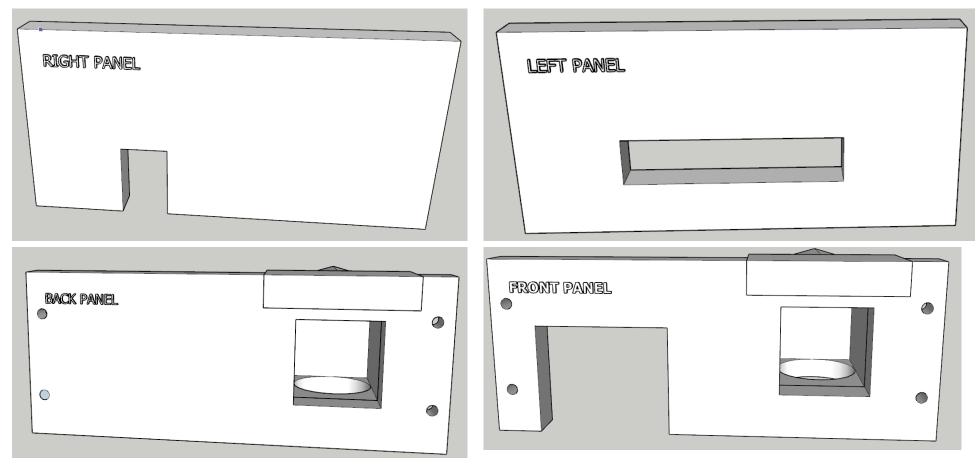


TOP View

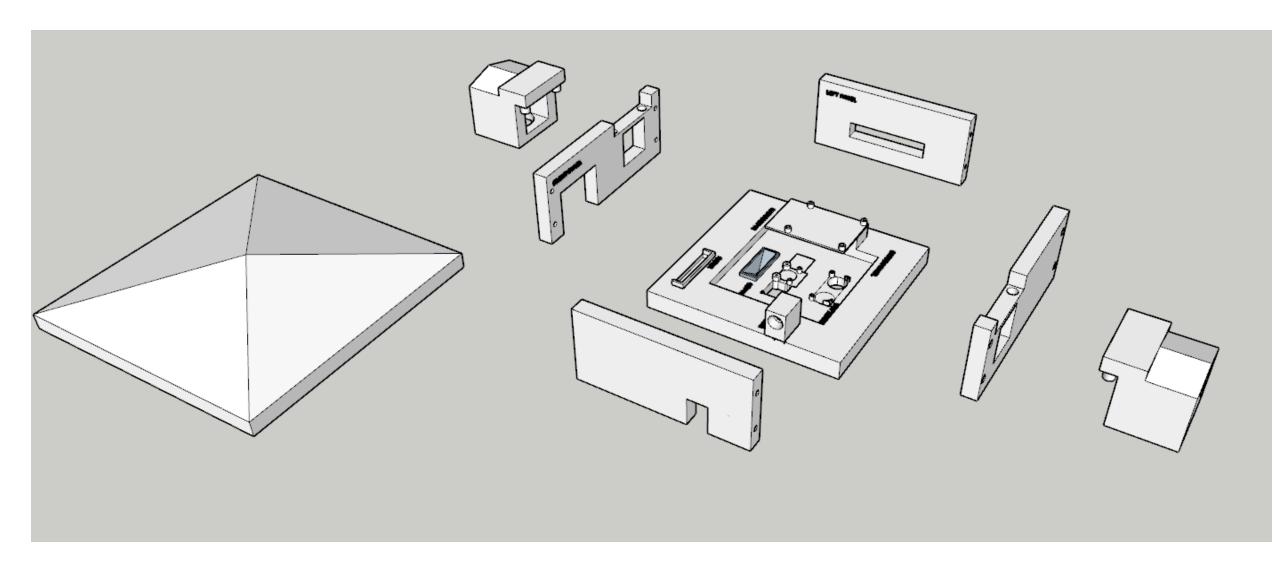
Bottom Panel







SIDE PANELS



The Sensor box is divided into multiple components. This MAY help the partner to print on 3D printer