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Pi PIR Camera Box Assembly Instructions

September 22, 2016

The laser-cut parts of the case are protected by an adhesive film which needs to be removed before assembly.

Bill of Materials

- Raspberry Pi B+ / 2 / 3
- Raspberry Pi Camera
- 6x black matte acrylic plates
- 1x thin clear acrylic plates
- 7x 1/4" black screws
- 1x 3/16" steel screw
- 3x 1" M/F hex standoffs
- 4x 1/4" F/F hex standoffs
- 6x M2 x 10mm black screw
- 6x M2 nut
- 10x M2 washer
- 2x M5 Screw
- 2x M5 Nut
- 4x rubber feet

Optional for wall mounting:

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IRC Chat

Server: chat.freenode.net

Channel: #ModMyPi

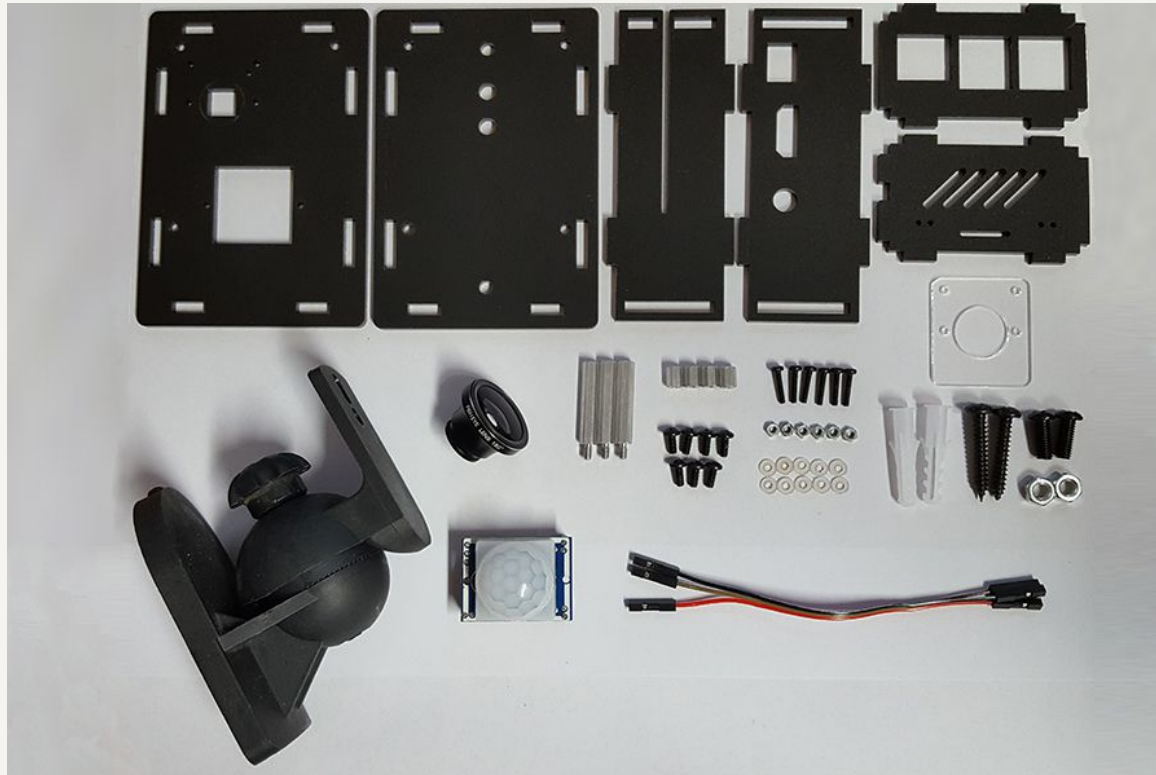
- Wall mount
- 2x M5 screws
- 2x M5 nuts

Optional:

- Magnetic lens

NOTE: Acrylic is a hard and stiff plastic which is sensitive to stress concentrations and shares a certain level of fragility with glass. Acrylic can scratch easily and should be cleaned with a mild solution of dish detergent and warm water. Never use cleaners unsuitable for acrylic. Never use a dry, abrasive cloth.

Here are the parts from the case kit:



Follow these images checking parts and orientation of the acrylic pieces. You will see a before and after image for each step. Make sure you have all the parts ready, shown in the before picture.

[ModMyPi Case Kit](#)

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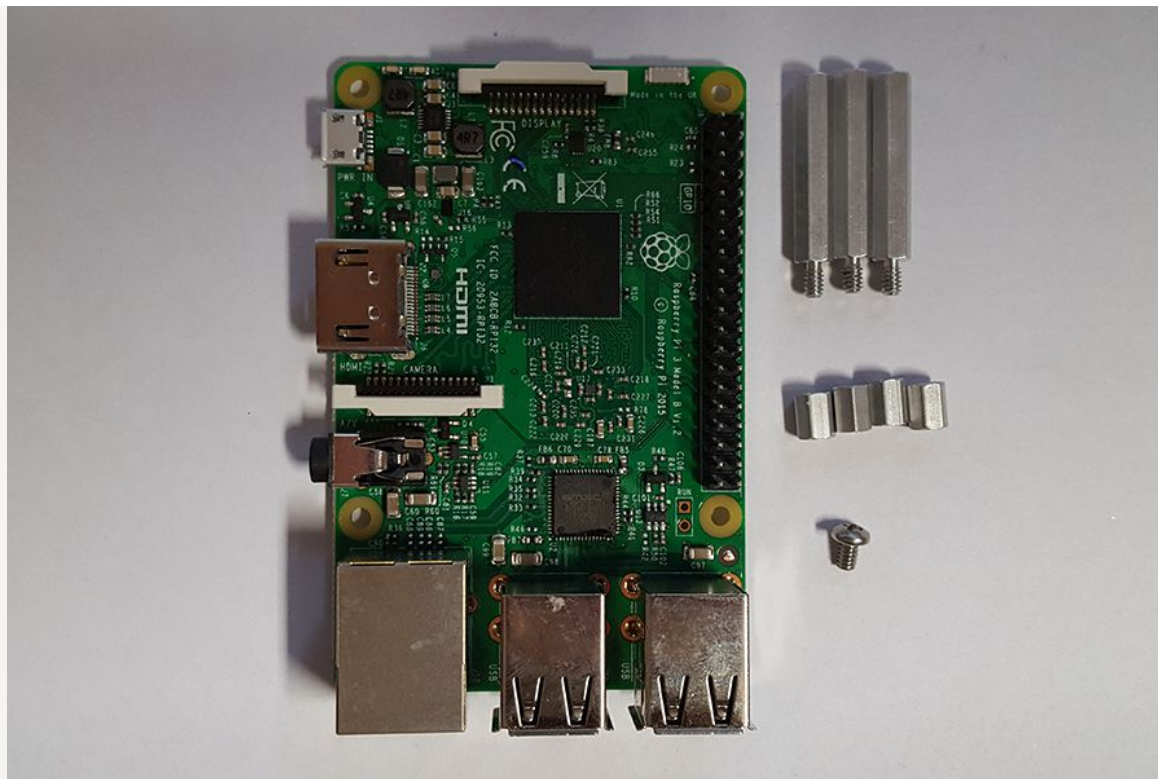
> [\[37\]](#) 2015

> [\[24\]](#) 2014

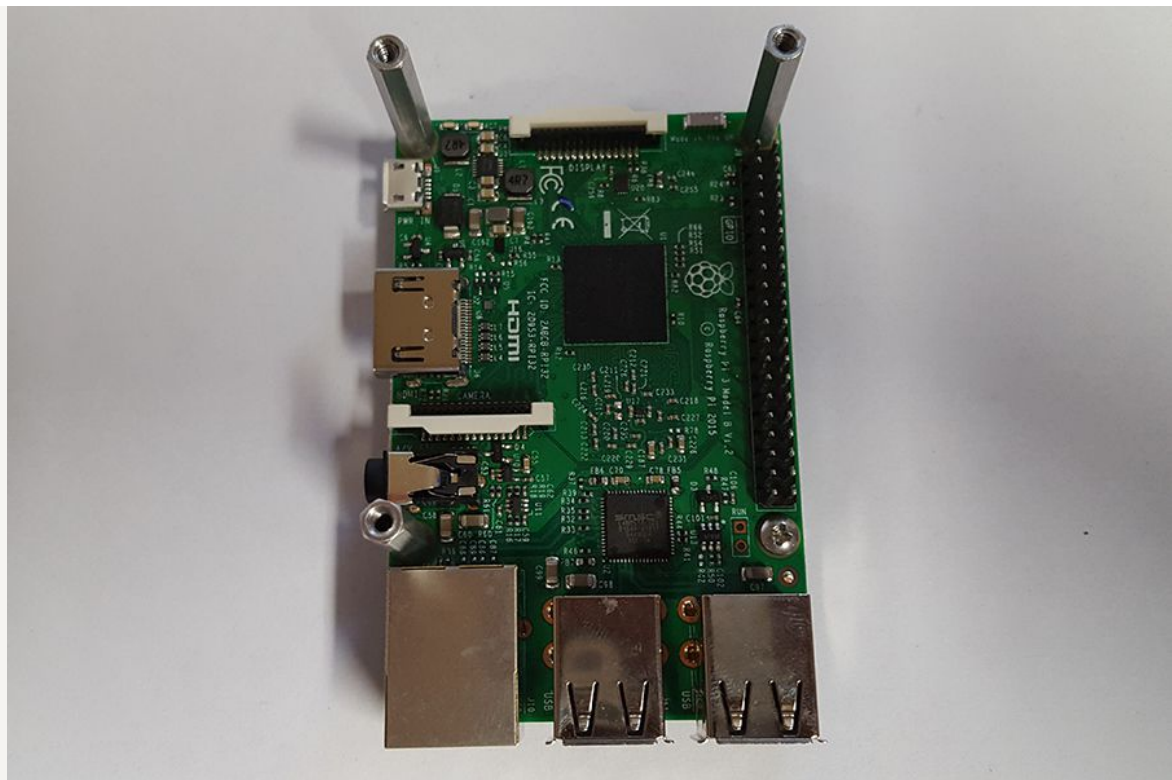
> [\[34\]](#) 2013

> [\[12\]](#) 2012

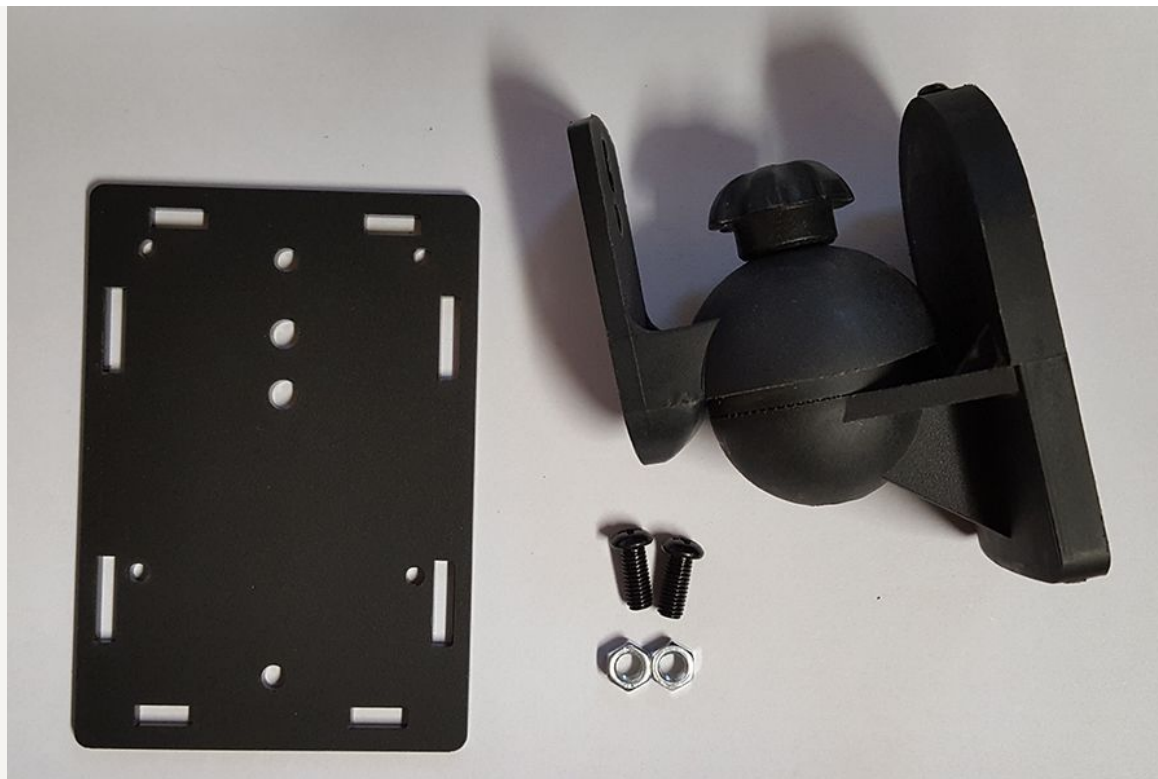
> [\[21\]](#) 2011



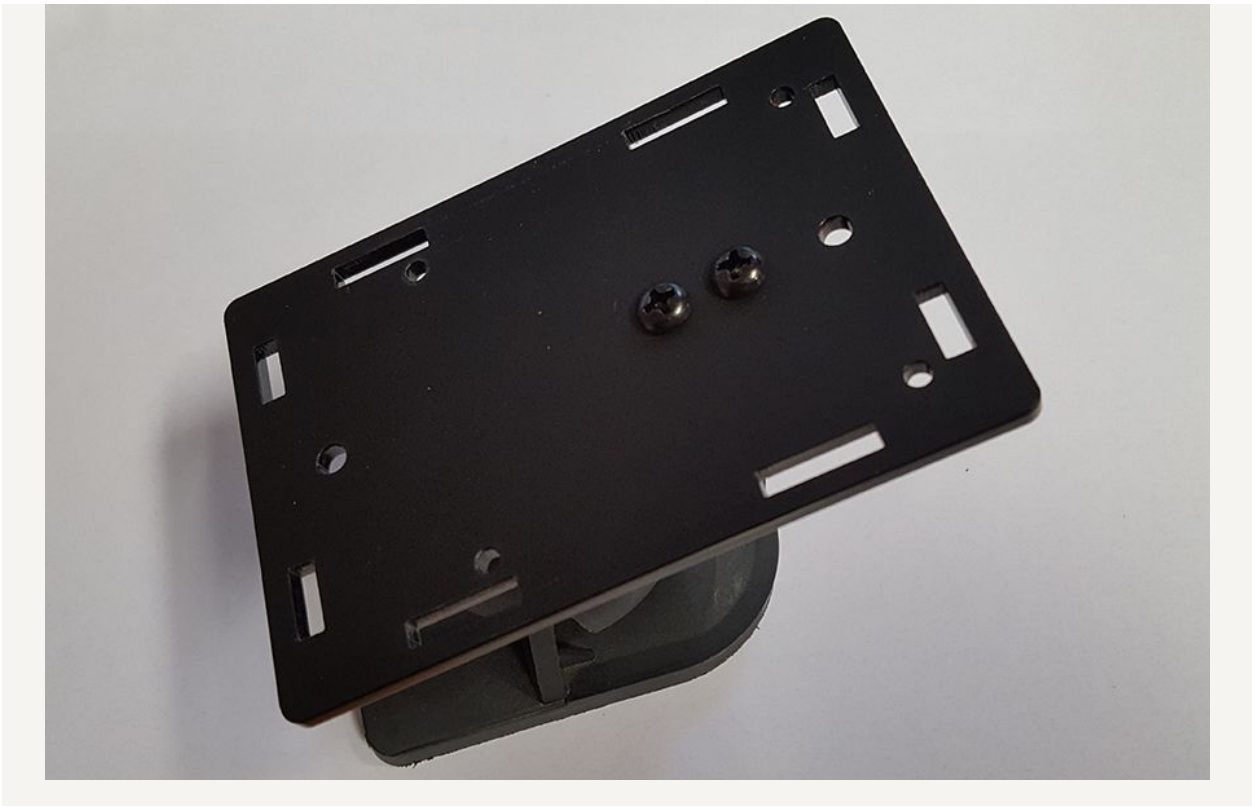
Orientate your Pi to match the above picture and secure the 1" M/F stand offs in the bottom-left, top-left and top-right corners using the 1/4" F/F stand offs.



OPTIONAL - Wall Mount



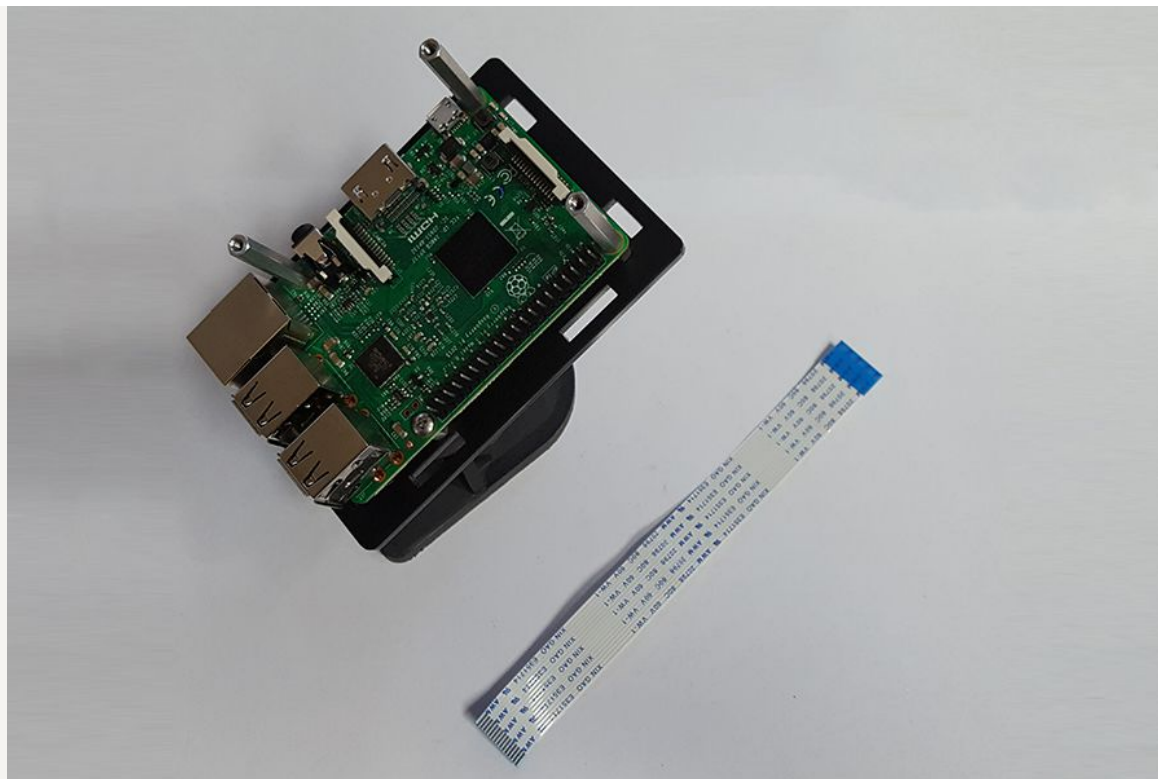
Attach the wall mounting bracket to the rear acrylic plate using the two M5 screws and nuts.





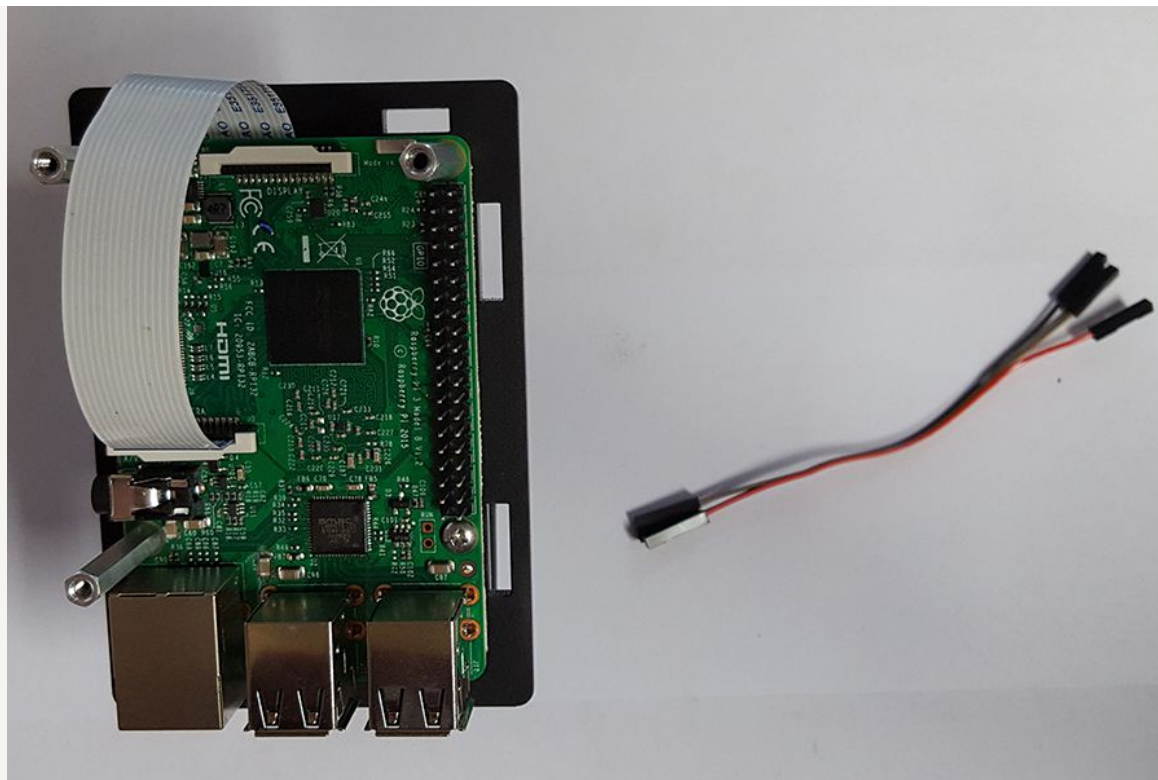
Now we need to attach the Pi to the rear plate using four 1/4" black screws.



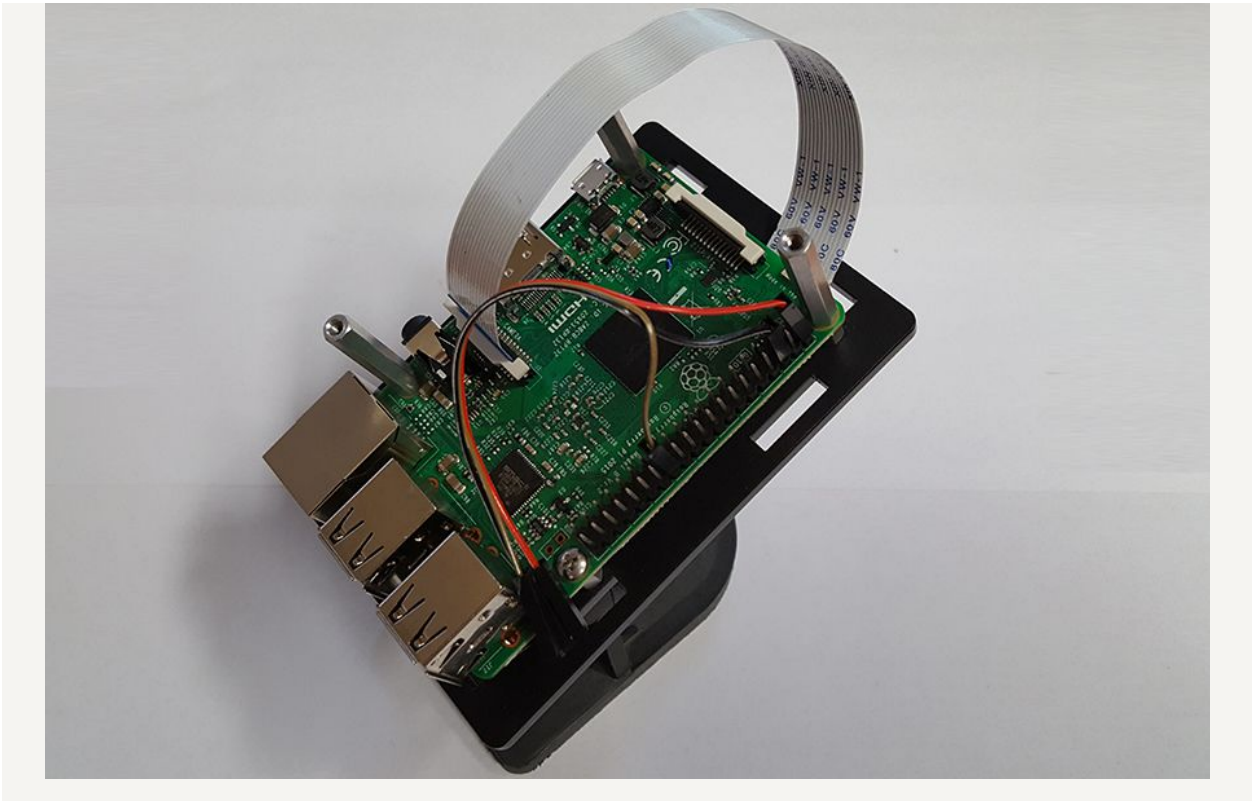


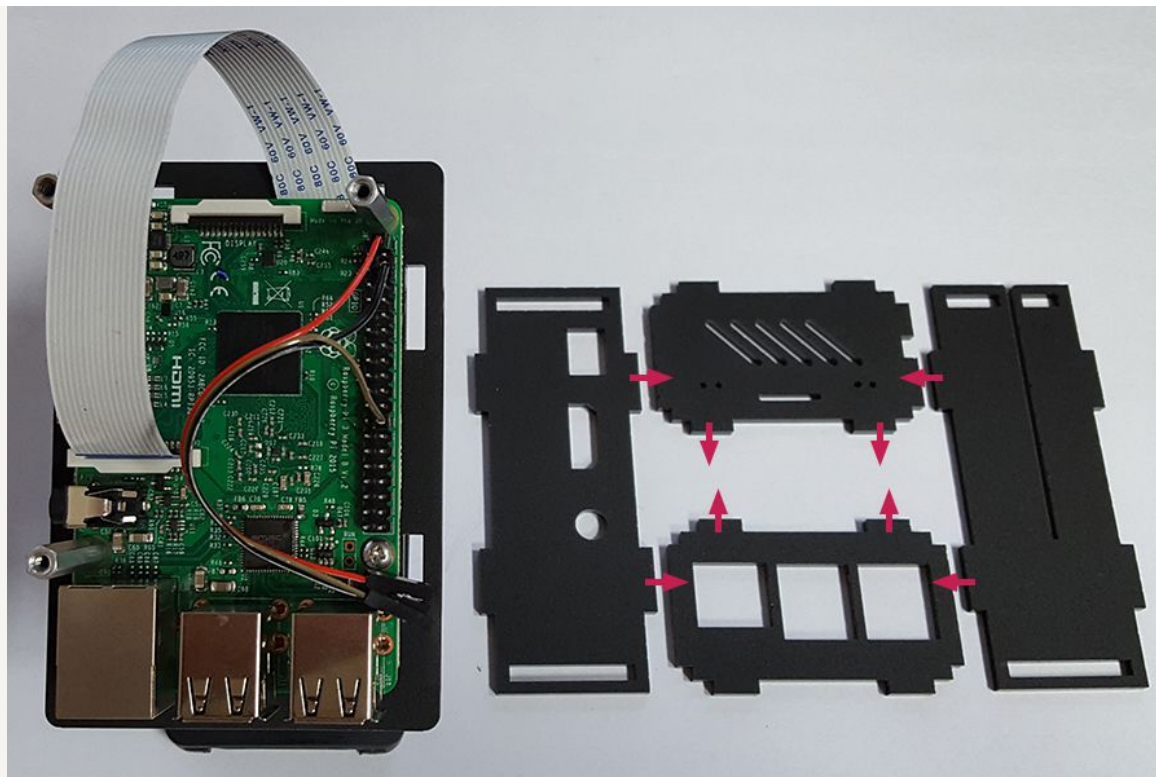
Attach the camera cable to your Pi.





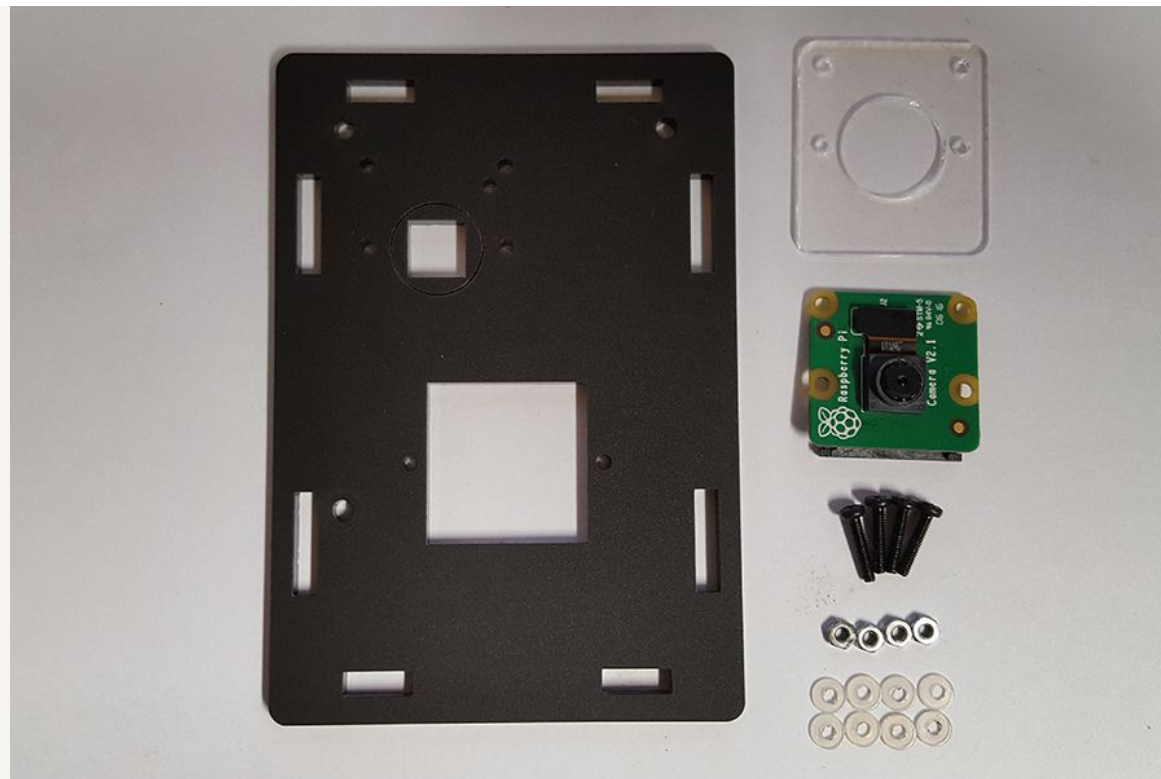
Attach the three jumper wires to the Pi's GPIO pins (colours may vary). Attach a wire to pin Pin 2, another to Pin 6 and the last one to Pin 26.



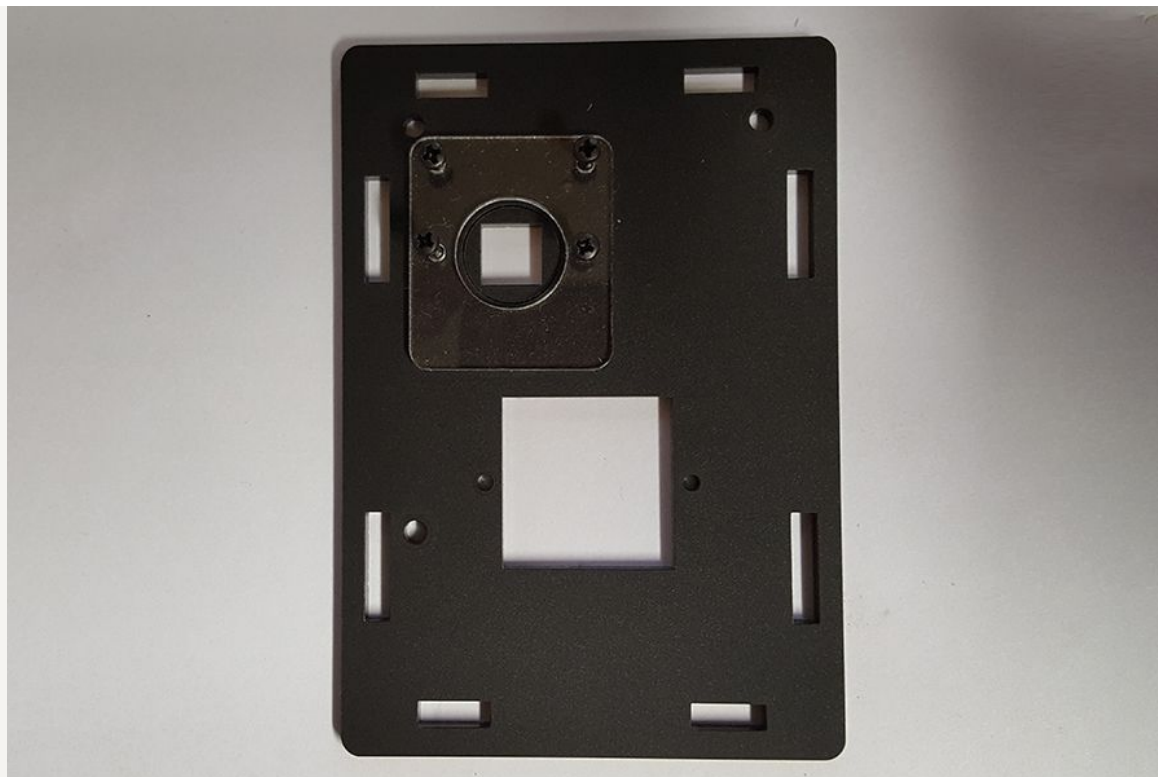


Next thing to do is attach the side acrylic plates. Make sure you have each of the 4 camera box walls in the correct orientation. The arrows indicate the knotches that will be inserted into the bottom plate.

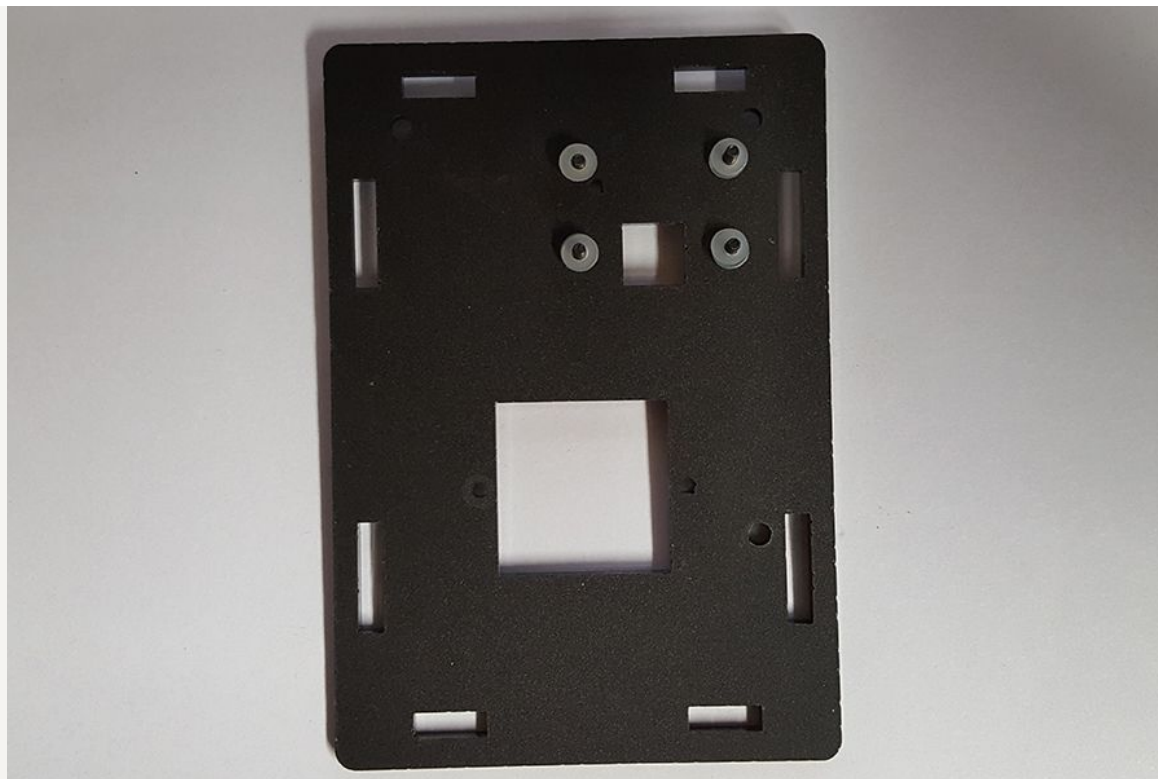




Now we need to attach our camera module to the front plate. Start by placing the thin clear acrylic plate into position and insert a M2 x 10mm screw into each corner mounting hole.



Carefully turn the plate over so the ends of the screws are now facing you. Place **TWO** M2 washers onto each of the screws.

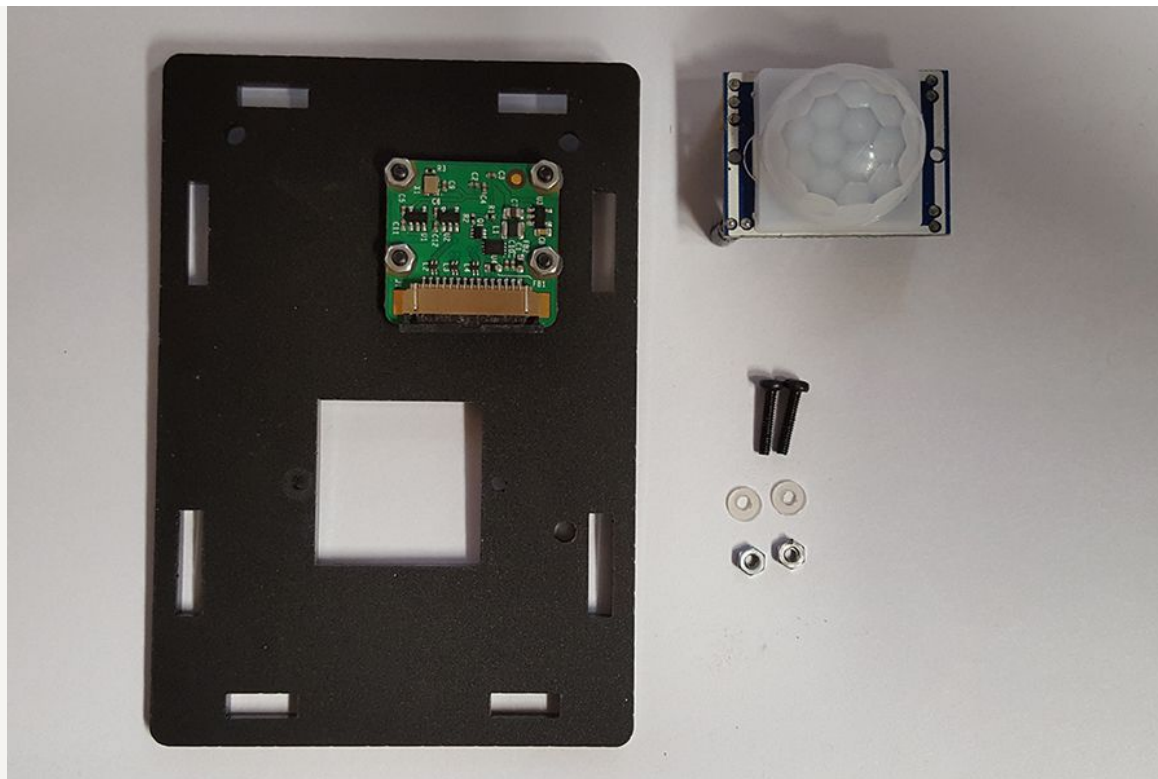


Add the camera module

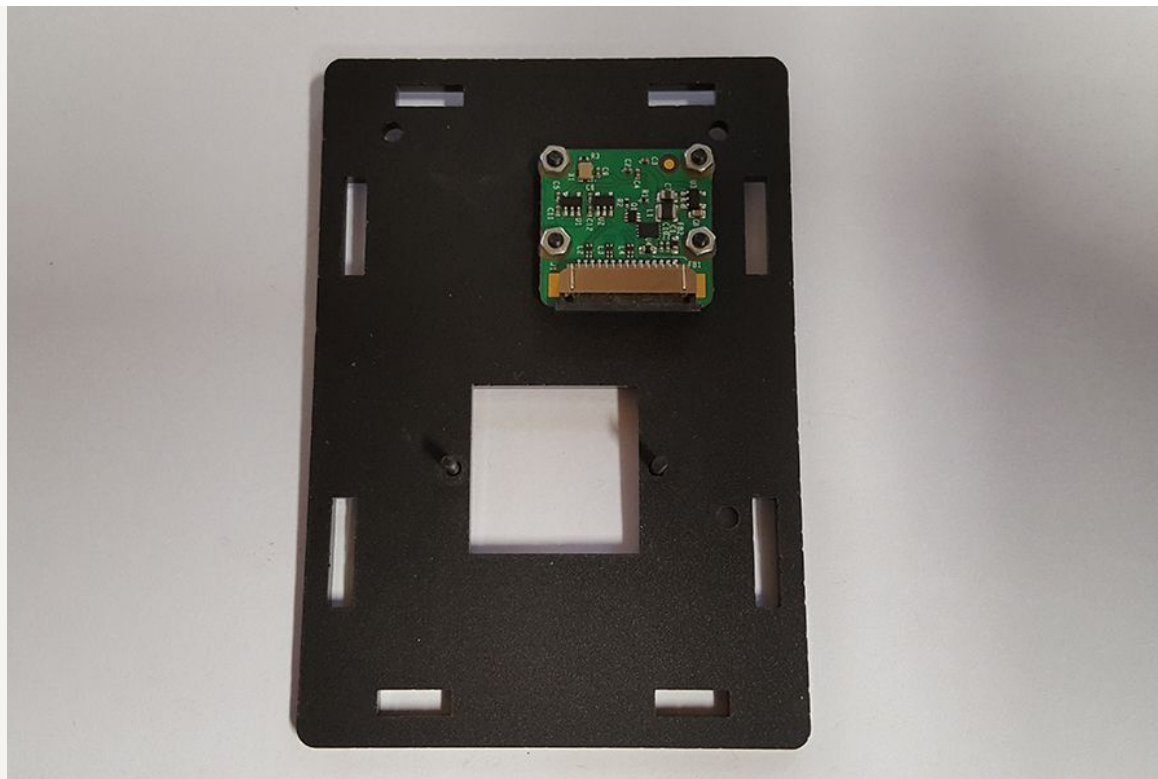


And finally secure in place using the M2 nuts.





Now we are going to attach the PIR module. Start by inserting the M2 x 10mm screws into each mounting hole from the underside.



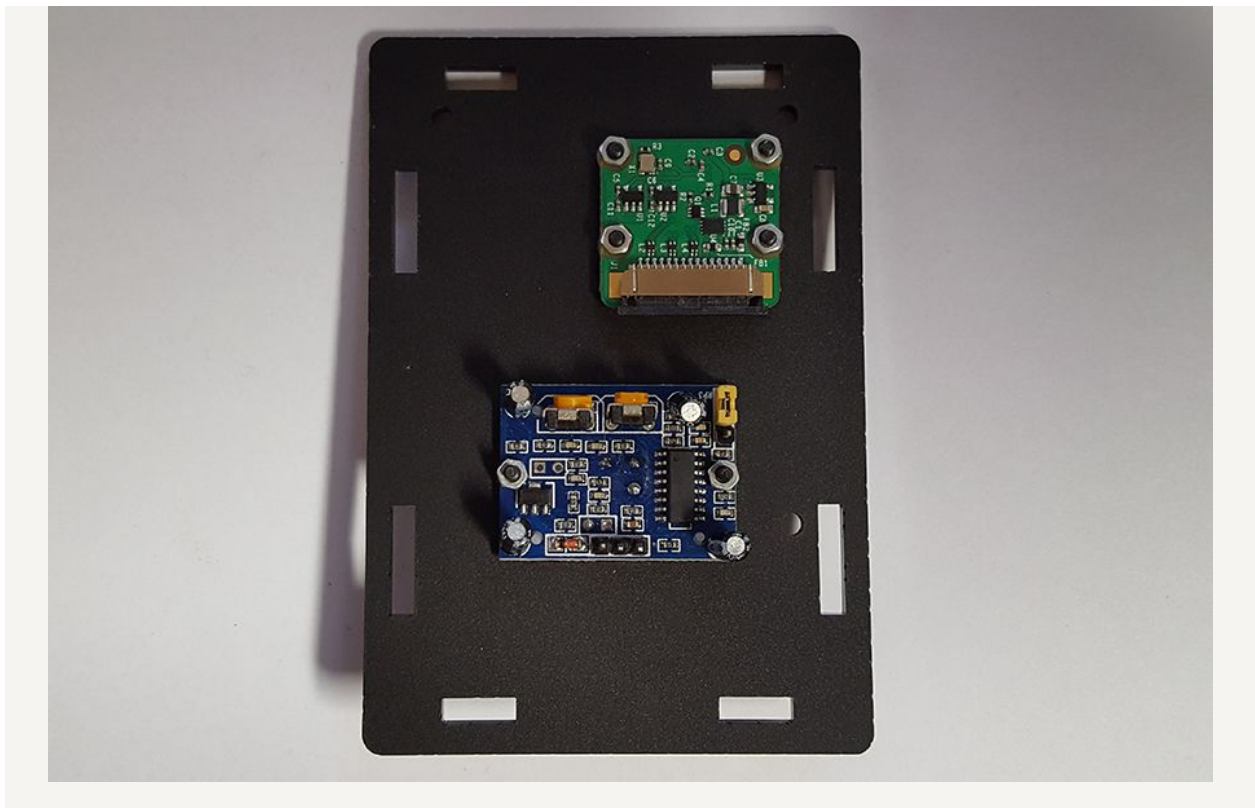
Add just one washer to each screw.

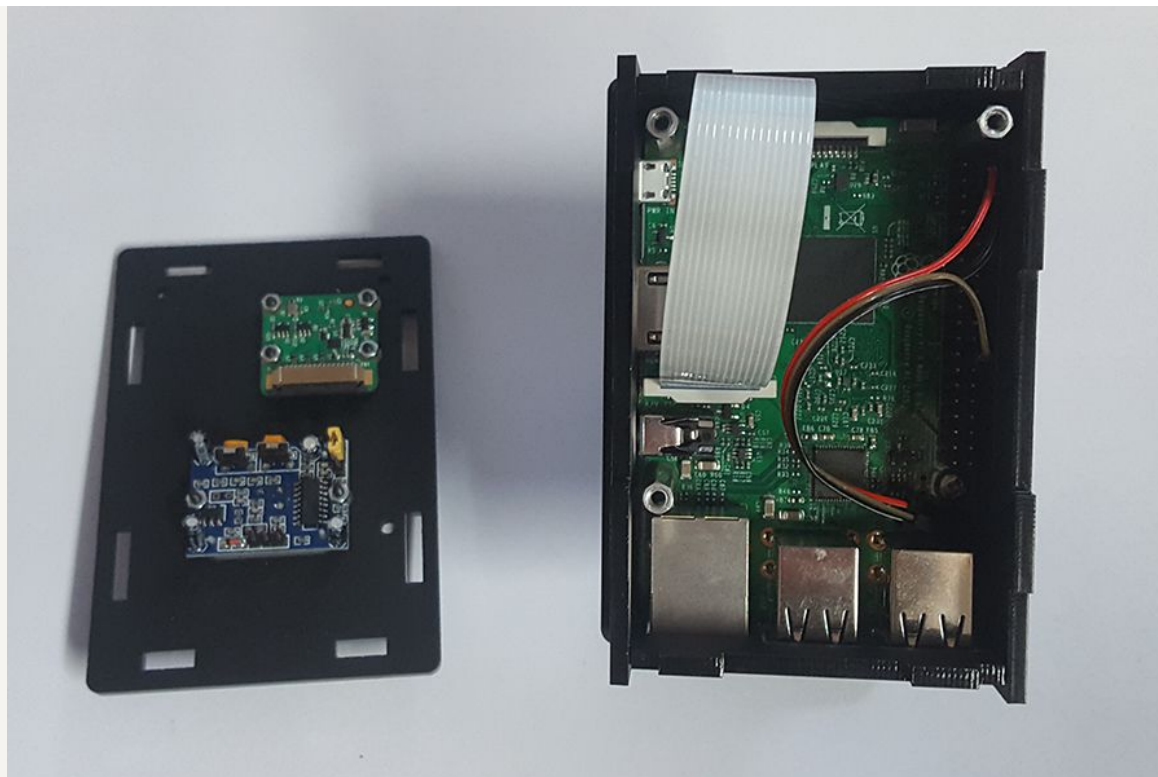


Add the PIR module.



Secure in place using the M2 nuts.





Time to attach our camera cable and jumper wires. With the 3 pins of the PIR module facing you, attach the jumper wires in this order:

JUMPER WIRE - PIR MODULE

Pin 2 - LEFT

Pin 6 - RIGHT

Pin 26 - MIDDLE

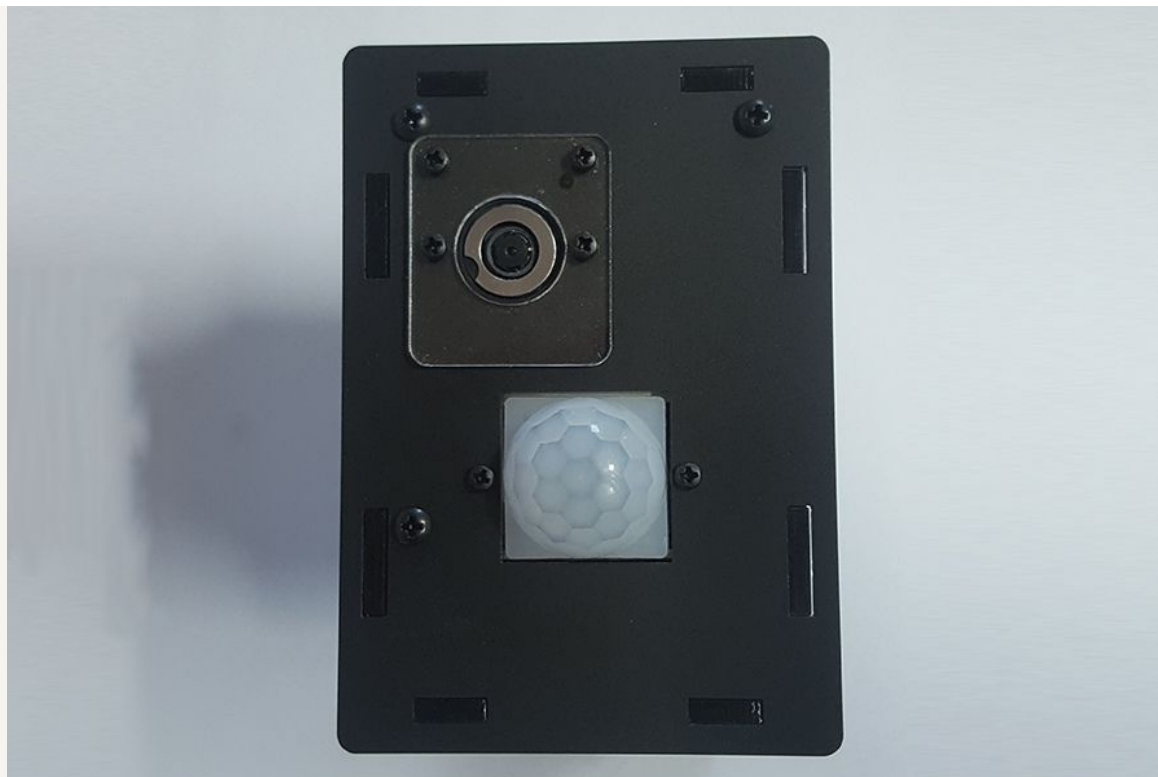


Finally secure the top plate into position using the 1/4" black screws.



OPTIONAL - Camera Lens

In the little lens box, you will find a magnetic metal ring. Peel off the blue protective film, peel off the self-adhesive backing and stick the metal ring to the front of the case around the camera lens. Be sure to press it on nice an firm so you get a good fit.



Now simply place the lens onto the magnetic ring!



For information on how to setup your PIR sensor, follow our simple tutorial [here](#).

Last update: September 28, 2016

Related Products:



[ModMyPi - Pi PIR Motion Sensor Camera Box](#)



[ModMyPi - Pi PIR Motion Sensor Camera Box](#)

Bundle - B+/2/3

£26.99



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ModMyPi - Pi PIR Upgrade Kit Model B+/2/3
Camera Box

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3 Comments(3 Replies)



James McConville

February 01, 2017 20:59

I can not print this tutorial. The pages 3 through 17 are blank.

Reply



Earl Baguh

December 17, 2016 04:55



Is there a disk image / software set up that you'd recommend to make this a fully functional motion sensor security camera?

Prefer something that is fairly complete and works with this set up pretty much straight out of the box.

Reply



Laurent Azzopardi

January 24, 2017 20:21

Hi,

try the following URL

<https://www.raspberrypi.org/learning/getting-started-with-picamera/worksheet/>



Laurent Azzopardi

January 24, 2017 20:55

also try

<https://www.modmypi.com/blog/raspberry-pi-camera-tutorial>



Casey Scalf

November 29, 2016 09:40

Can this fit a HAT underneath the backside such as this POE HAT?

<https://www.pi-supply.com/product/pi-poe-switch-hat-power-over-ethernet-for-raspberry-pi/>

Reply



ModMyPi

Top Administrator November 29, 2016 10:19

There's very little space inside the case to fit a HAT. You might be able to squeeze a sense hat in there, but definitely not a PoE HAT

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