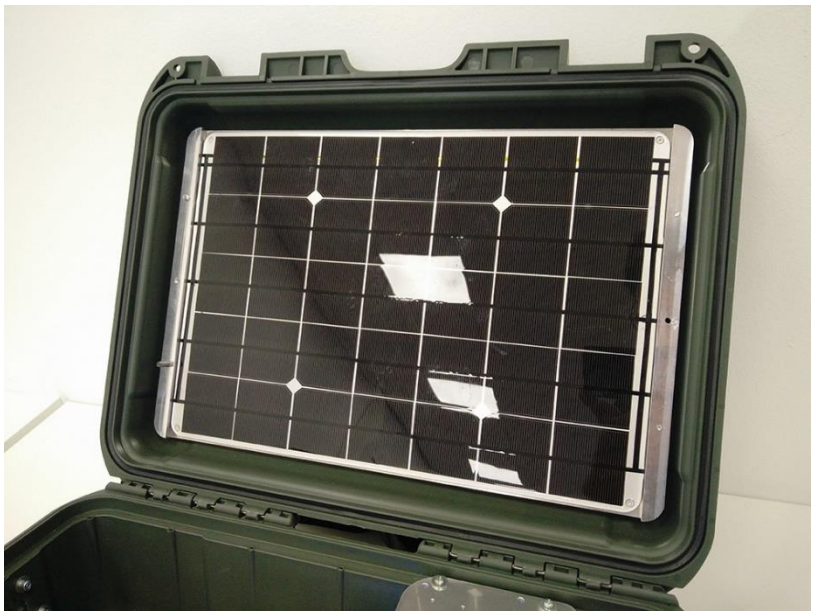
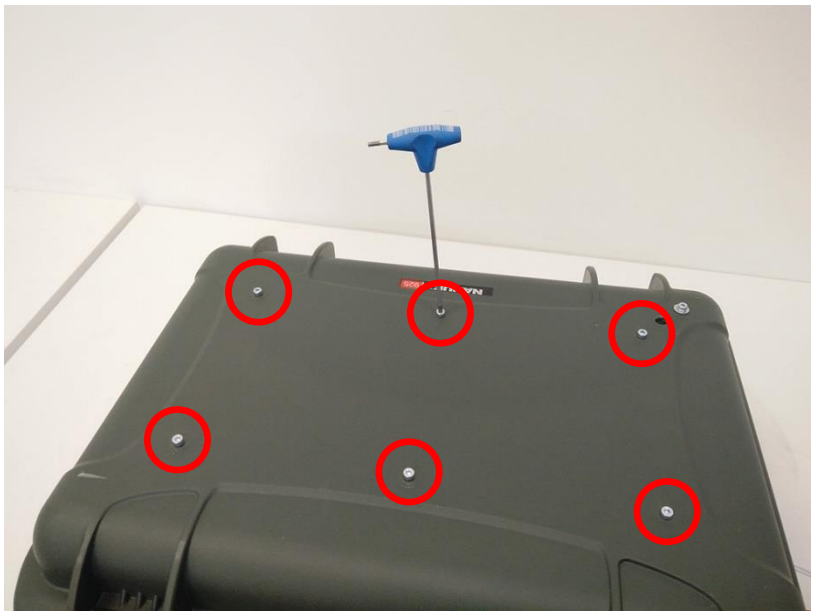
Assembly instructions for NANUK 925 Arribada Arboreal Monitoring Platform

The Arribada Arboreal Monitoring Platform will arrive carefully packed, so that the components are not damaged during the transport. These instructions will help you to remove the necessary components and move and attach them in a way to ensure proper operation of the system.

1 SOLAR PANEL

Solar panel is mounted inside of the case for the transport. The solar panel should be mounted on the outer side of the case. First remove the six screws that hold the solar panel in place and remove the solar panel.

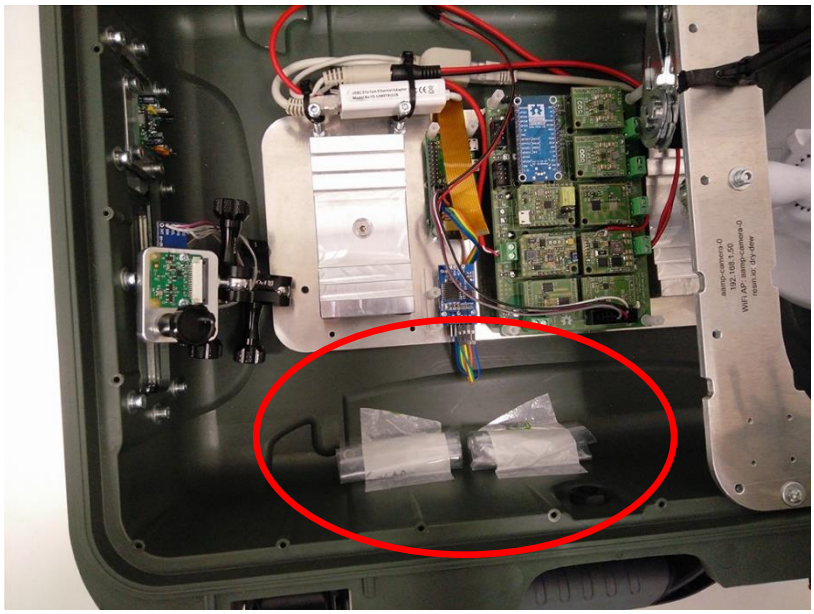




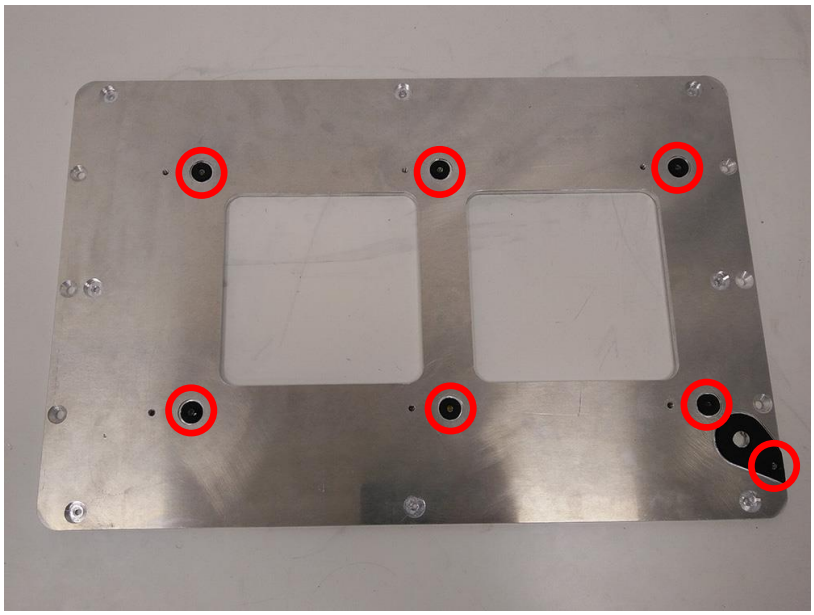
Then remove the small aluminium part that covers the hole for the cable. You can remove it by removing the last screw.

Direct the solar panel cable through the hole in the case, from outside to the inside.

Attach the solar panel on the outer side of the case using seven M4x12 HEX SOCKET screws with spring lock washers and regular washers. The screws can be found inside the case in the zipper resealable plastic bags.



There are two sets of holes on the bottom of the solar plate. One set of holes is used for mounting the solar panel inside the case for the transport and the other for mounting the solar panel on the outer side of the case. For mounting the solar panel to the outer side the holes that are asymmetric to the plate must be used. These are the holes that have a black seal around them and that align with the holes in the case, when the solar panel cable is fitted through the designated hole in the case.



2 CAMERA GLASS

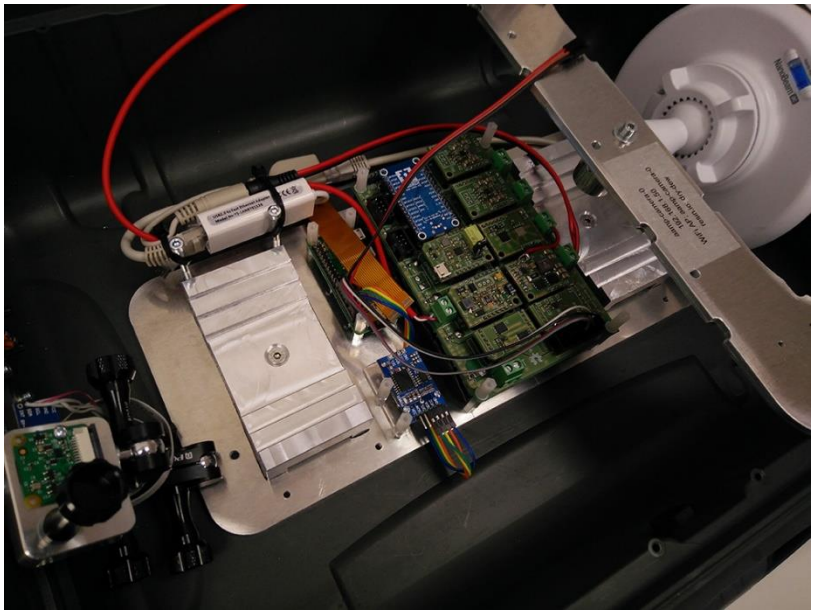
Camera glass and motion sensor will arrive protected with aluminium cover plate. Remove four screws to remove the cover.

3 ENDLESS RATCHET STRAPS

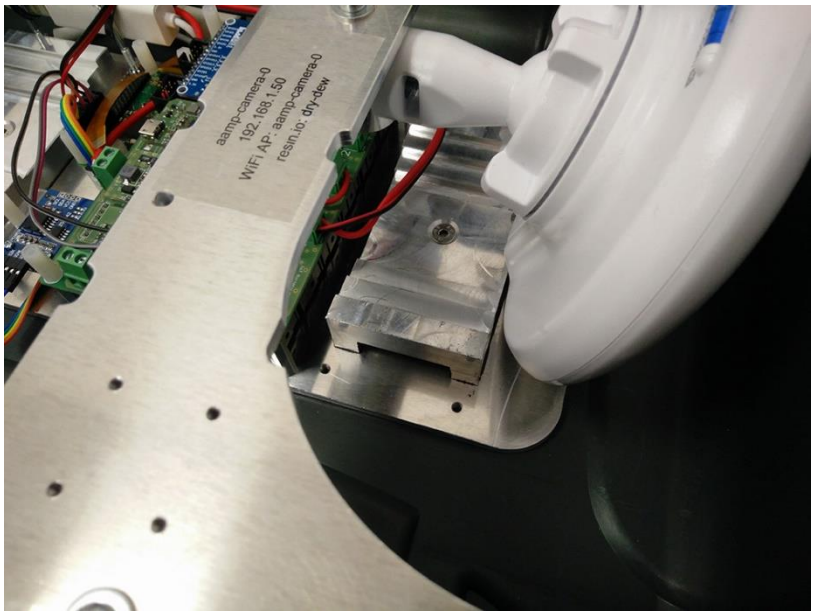
Remove the endless ratchet straps by removing the reusable cable ties that hold the ratchet straps in place.

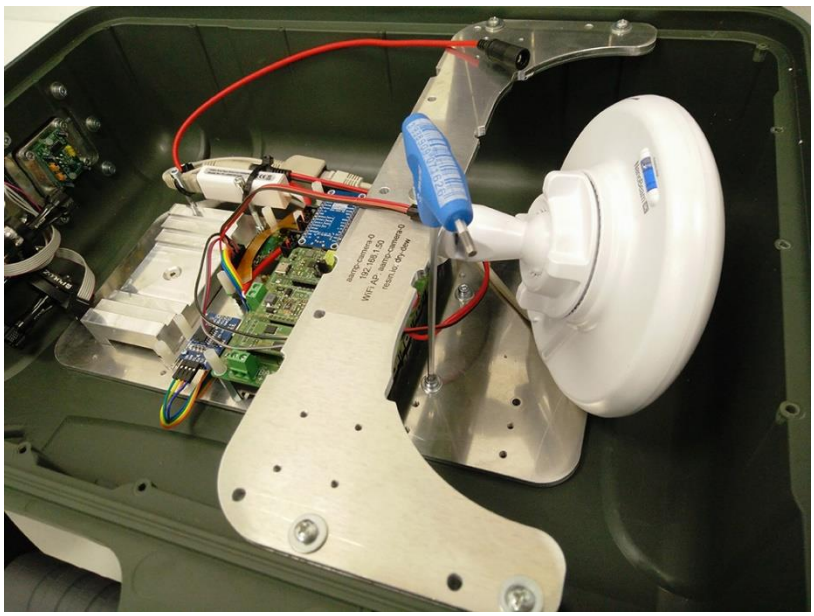
4 TREE MOUNT / ELECTRONICS PLATE

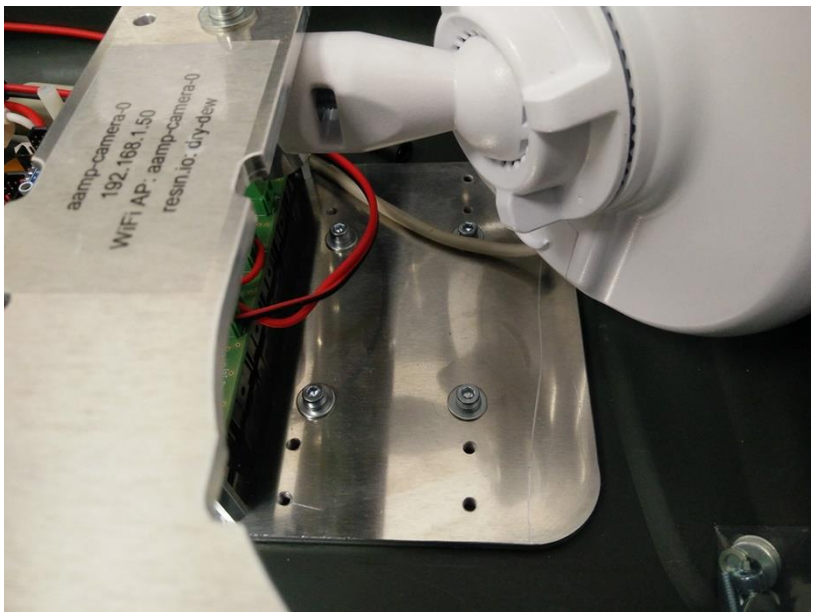
Aluminium tree mounts are mounted inside of the case for the transport.



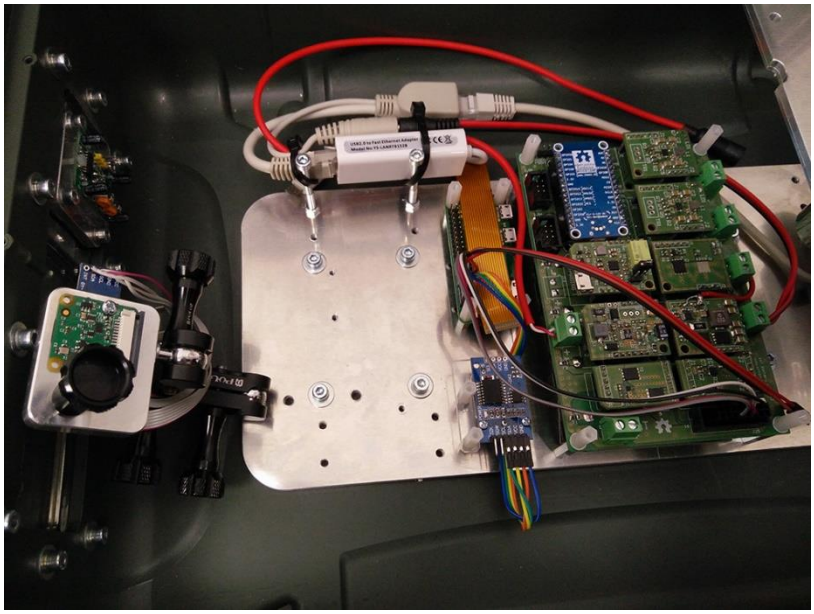
When attaching the tree mounts to the outer side of the case, you should do it one by one, otherwise the electronics plate will not stay in place. First remove the four screws on the outer side of the case that hold one of the tree mounts in place. Remove the tree mount and position it on the outer side of the case and attach it using four M4x16 HEX SOCKET screws with spring lock washers and regular washers. The screws can be found inside the case in the zipper resealable plastic bags, next to the solar panel screws.




aamp-camera-0
192.168.1.50
WiFi AP : aamp-camera-0
resin.io: dry-dew

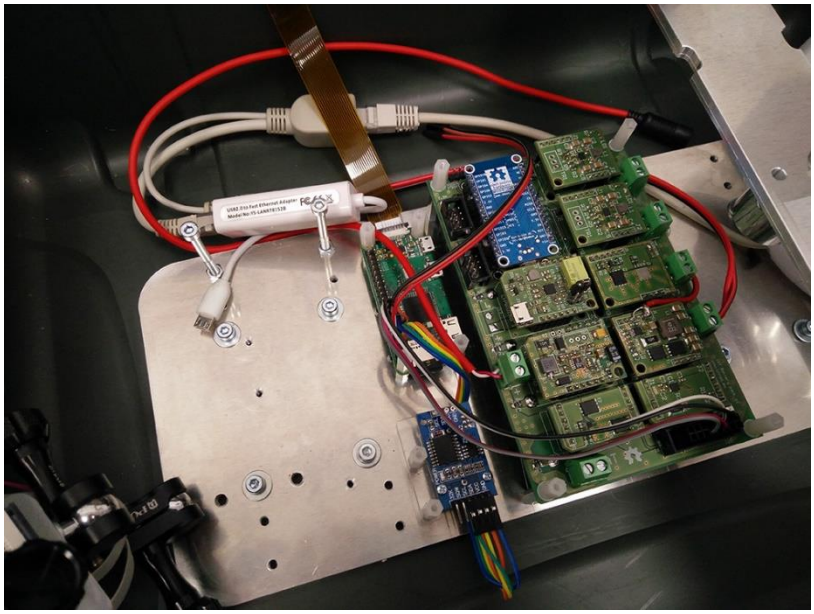

aamp-camera-0
192.168.1.50
WiFi AP : aamp-camera-0
resin.io: dry-dew

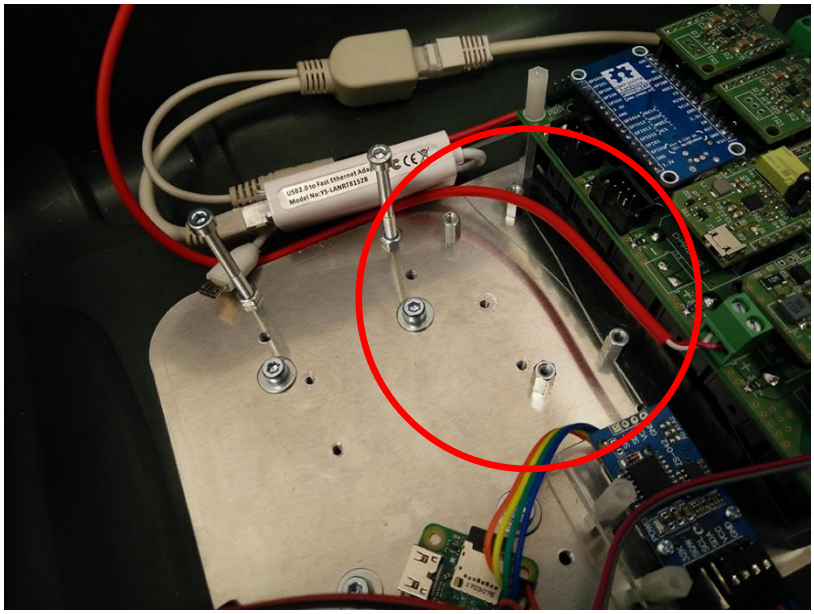
When the first tree mount is securely attached, you can repeat the process for the other tree mount as well. Remove the tree mount by removing the screws from the other side of the case, position it on the outer side of the case and attach it using four M4x16 HEX SOCKET screws with spring lock washers and regular washers.



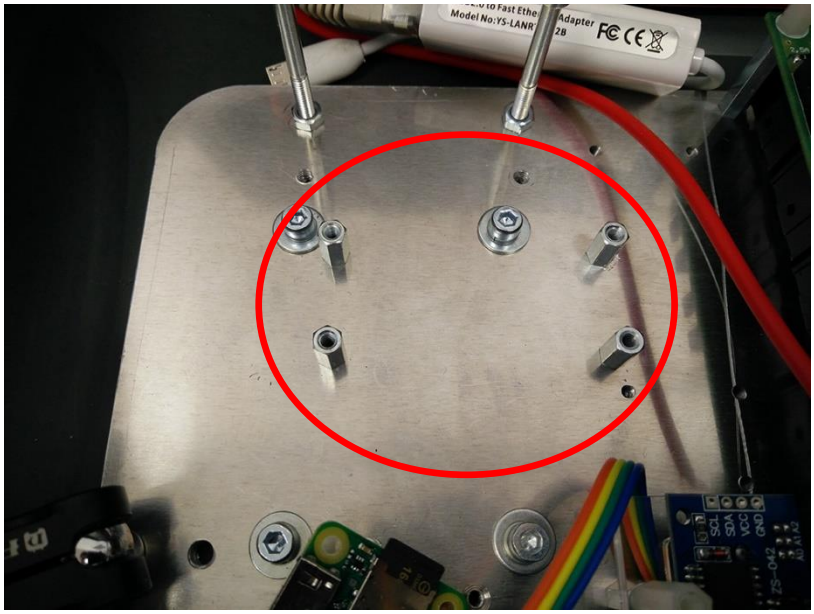
5 ELECTRONICS

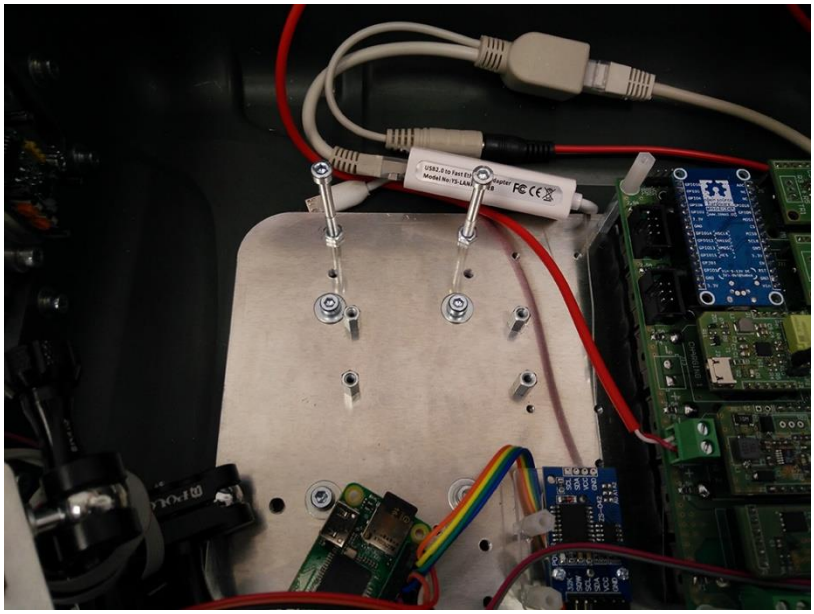
The Raspberry Pi Zero W must be moved as well. Remove the Raspberry Pi and the four hex stand-offs.

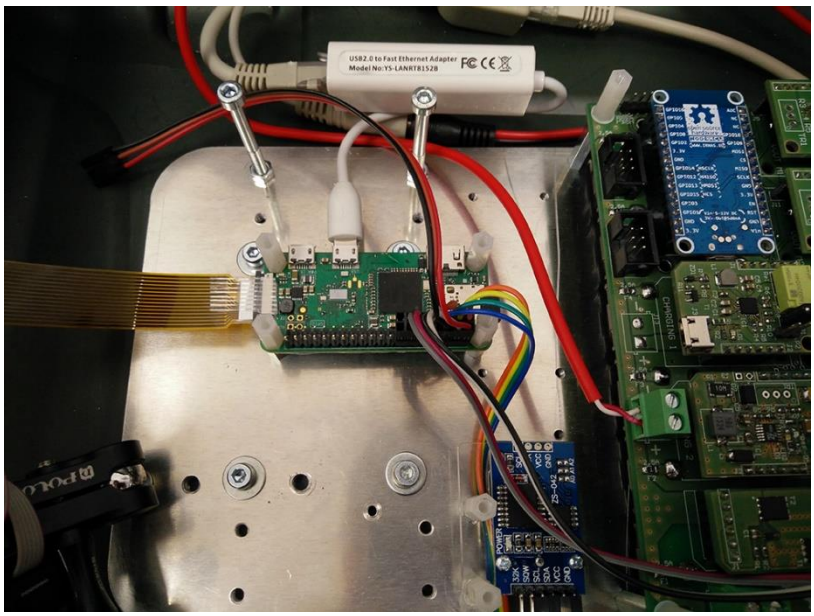




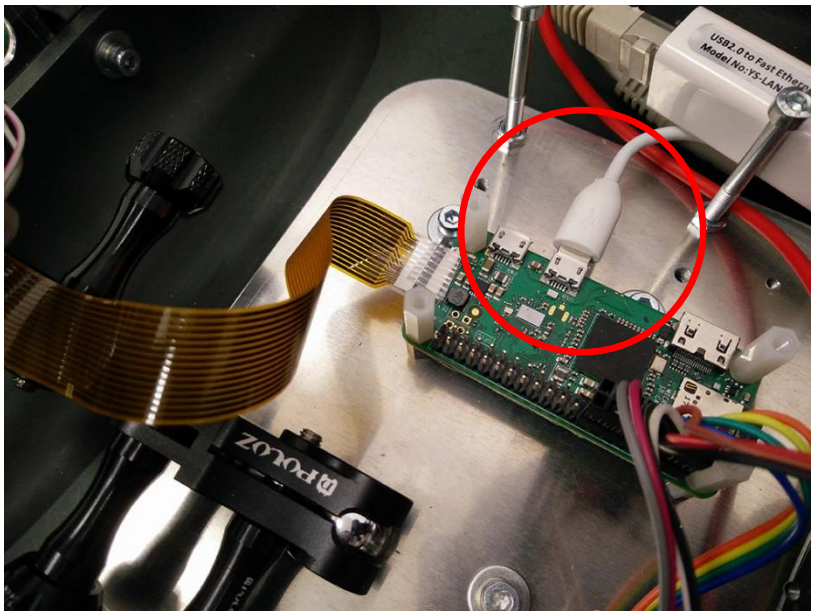
Screw the four hex stand-offs in the other holes and attach the Raspberry Pi.



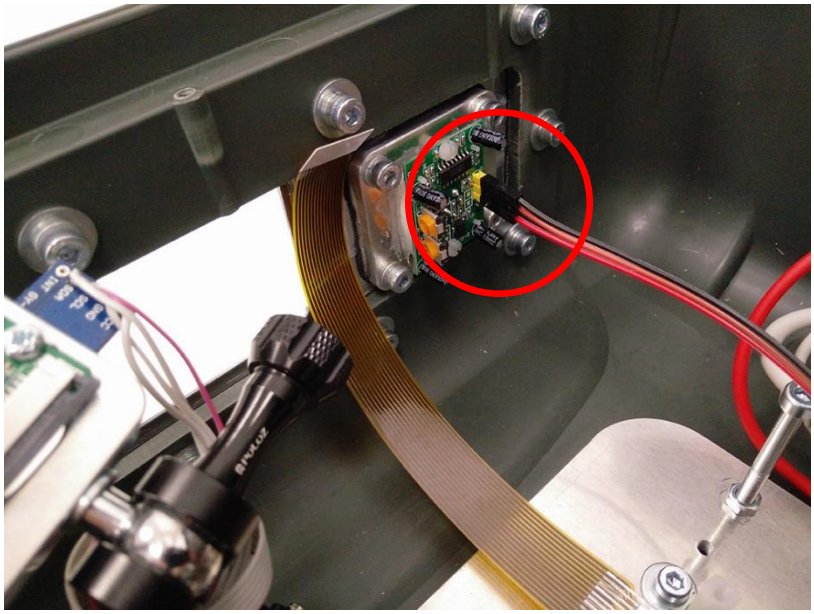


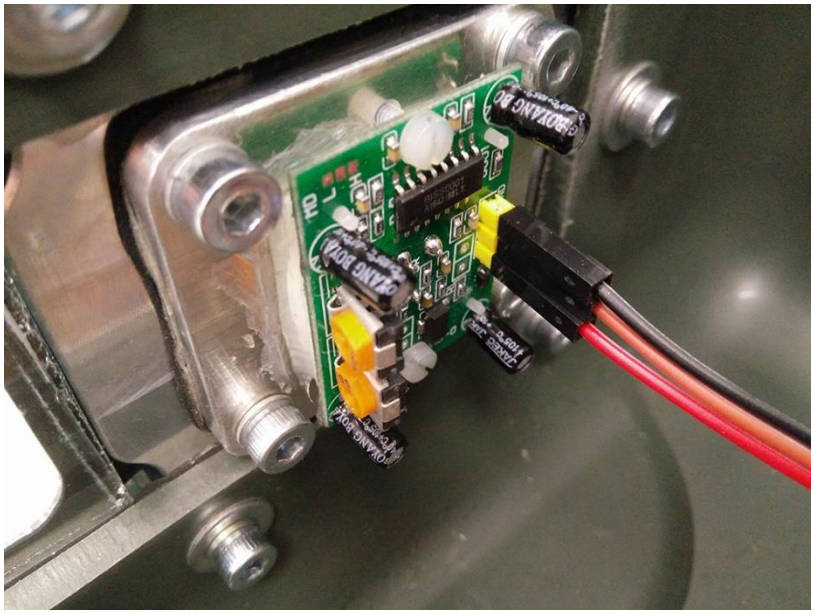


Connect the USB Ethernet adapter to the Raspberry Pi as shown in the picture.

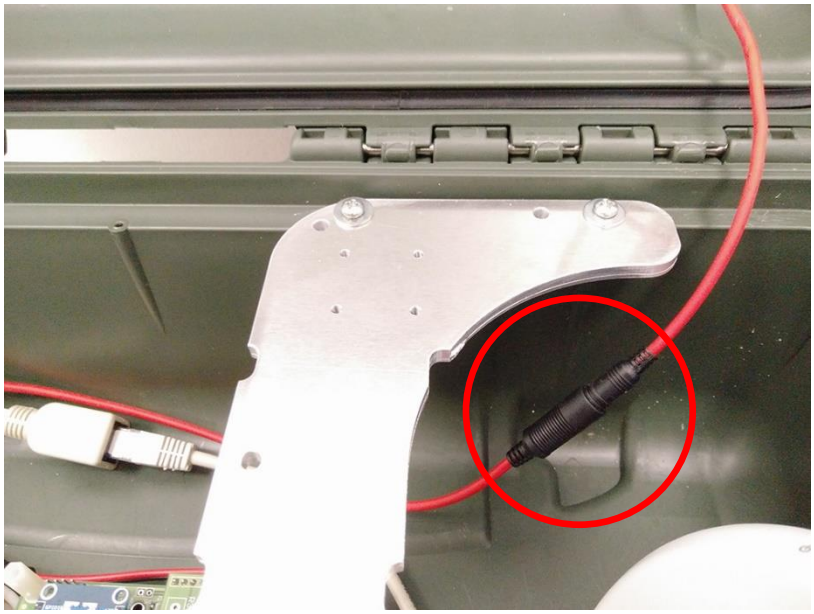


Connect the motion sensor using a dupont cable as shown in the picture.



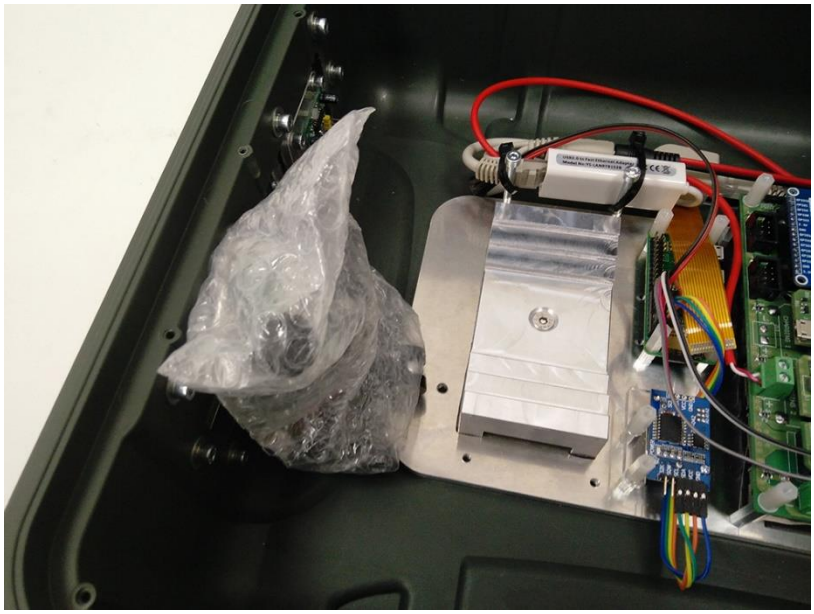


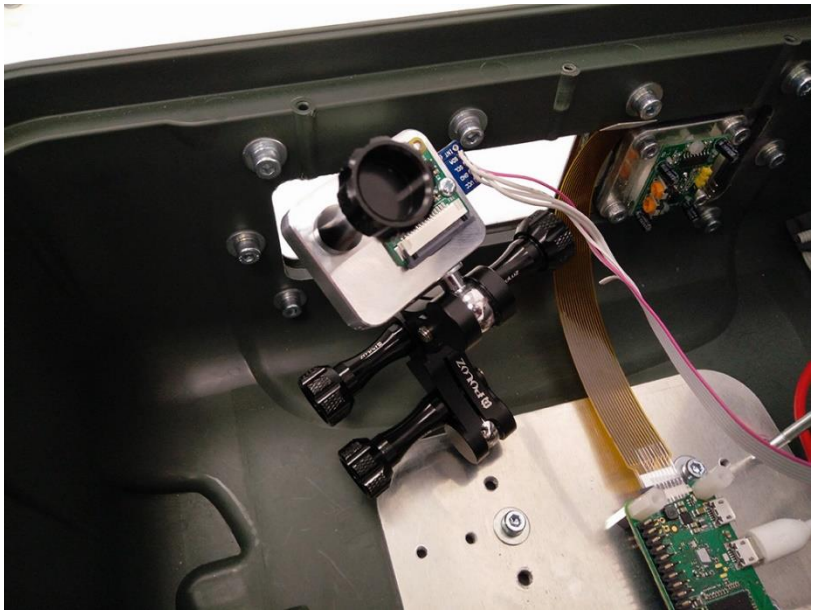
Connect the solar panel to the battery pack.



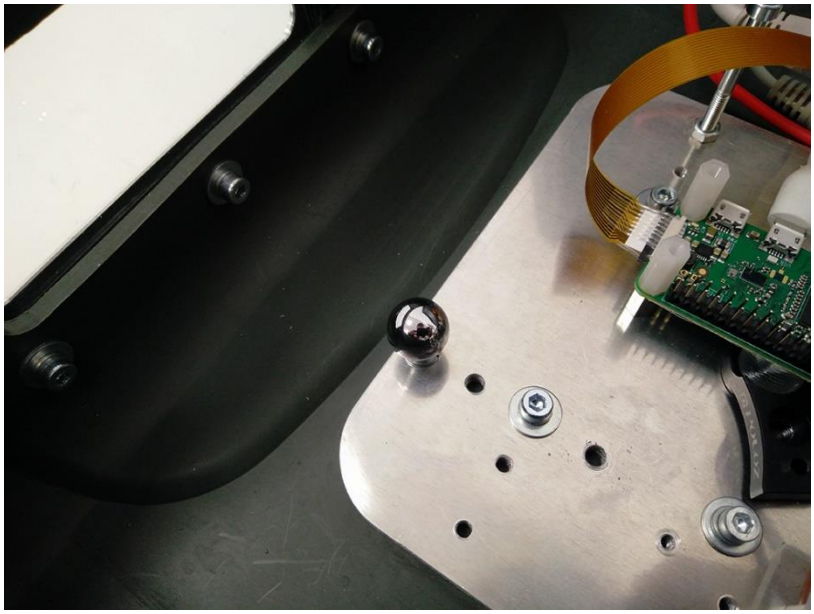
6 CAMERA

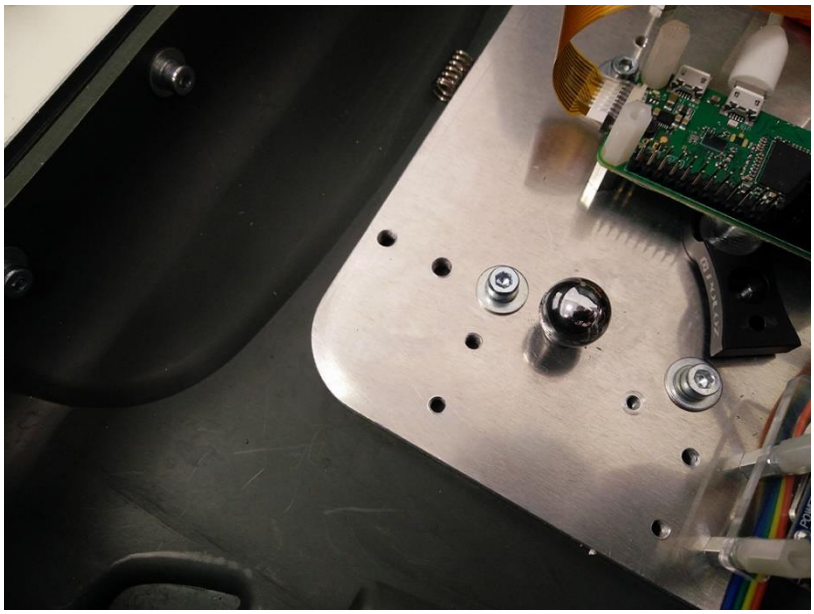
Remove the bubble wrap from the camera.



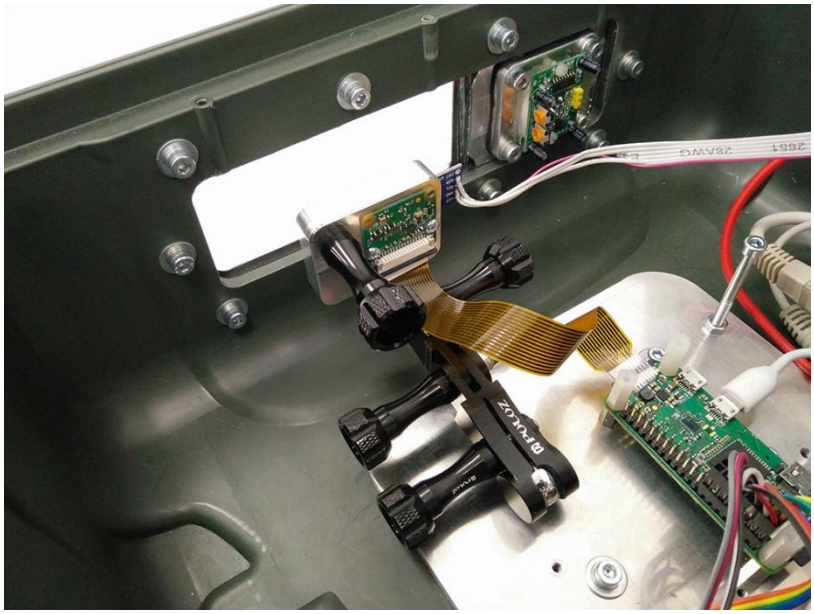


Remove the camera by disassembling the camera ball joint mount. Move the ball to the other hole as shown in the picture and screw it tightly.

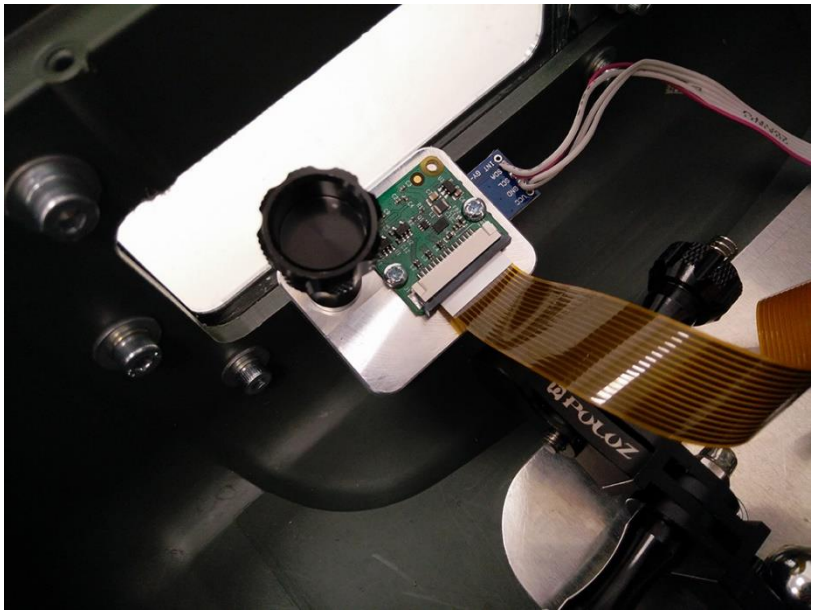




Assemble the camera ball joint mount back together.



Connect the flat cable to the Raspberry Pi Camera.



Connect the luminosity sensor to the battery pack with a flat cable as shown in the picture