SkyHub Enclosure v1

Dahua 12MP Fisheye
Dahua 8MP PTZ 40x
Nvidia Jetson Nano
and additional sensors



# **Bill Of Materials**

### **Components to buy**

Dahua 12MP Fisheye

Dahua 8MP PTZ 40x (optional)

Nvidia Jetson Nano (or Xavier NX, AGX, TX2)

Noctua Fan 40x40x20mm

ATX PSU 350W LC6350 (or stronger)

2x ATX Locks

4x Hinges 40x26mm (or similar)

2x Springs 8x120mm (to 200mm extendable)

120x M3x16mm REMFORM screws for plastics

4x M3x8mm flat headed screws

12x M3x10mm flat headed screws with nuts

12x M3x20mm flat headed screws with nuts

3x M4x16mm flat headed screws with nuts

## Parts for 3D printing

Dahua 12MP Fisheye Tower

Noctua Vent

ATX PSU 350W LC6350 Foundation

Airintake

Power/Network Inlet1 & Inlet2

Frontdoor Springholder left & right

7x Corner Fittings

3x Longside Fittings

1x Longside Fitting front bottom

### **Parts for 2D laser cutting**

(white UV-resistant 8mm plastic sheets)

Topwall

Sidewalls left & right

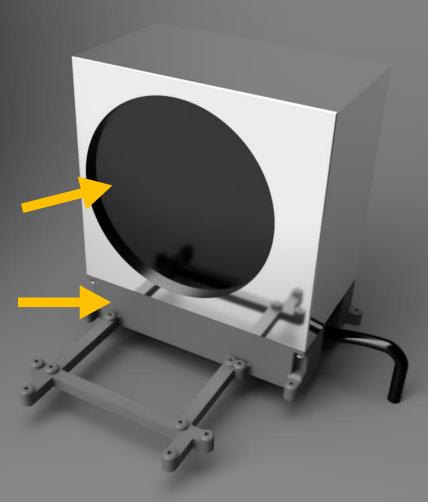
Rearwall

Bottomwall

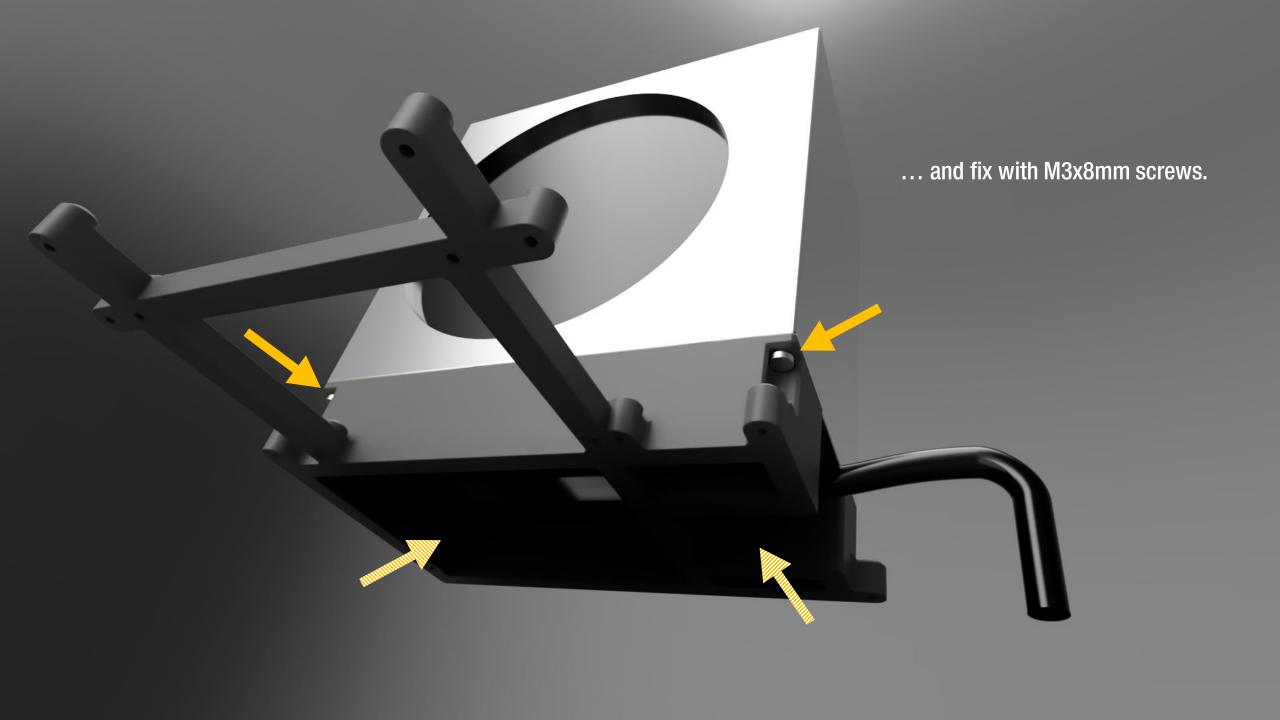
Frontwall

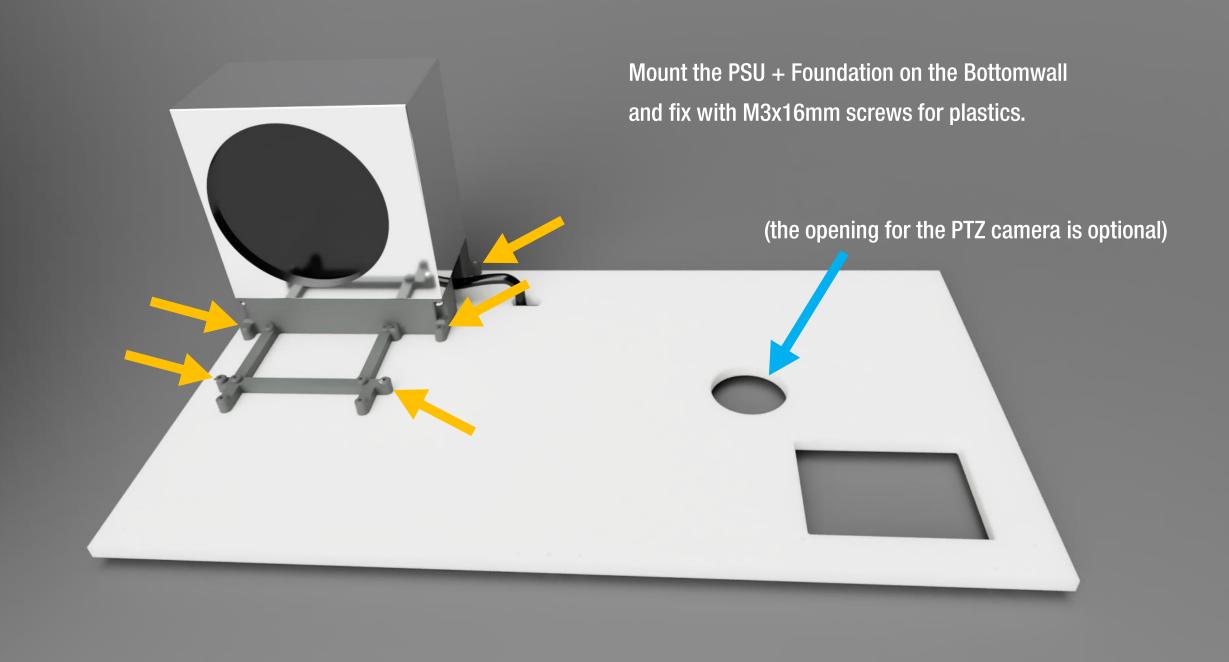
Frontdoor Barriers left & right

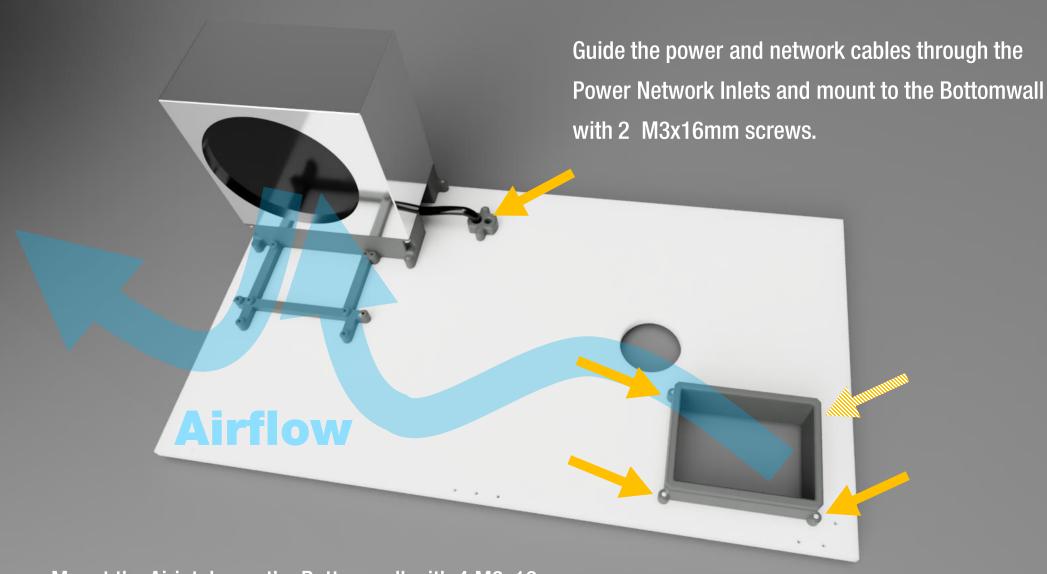
Frontdoors left & right



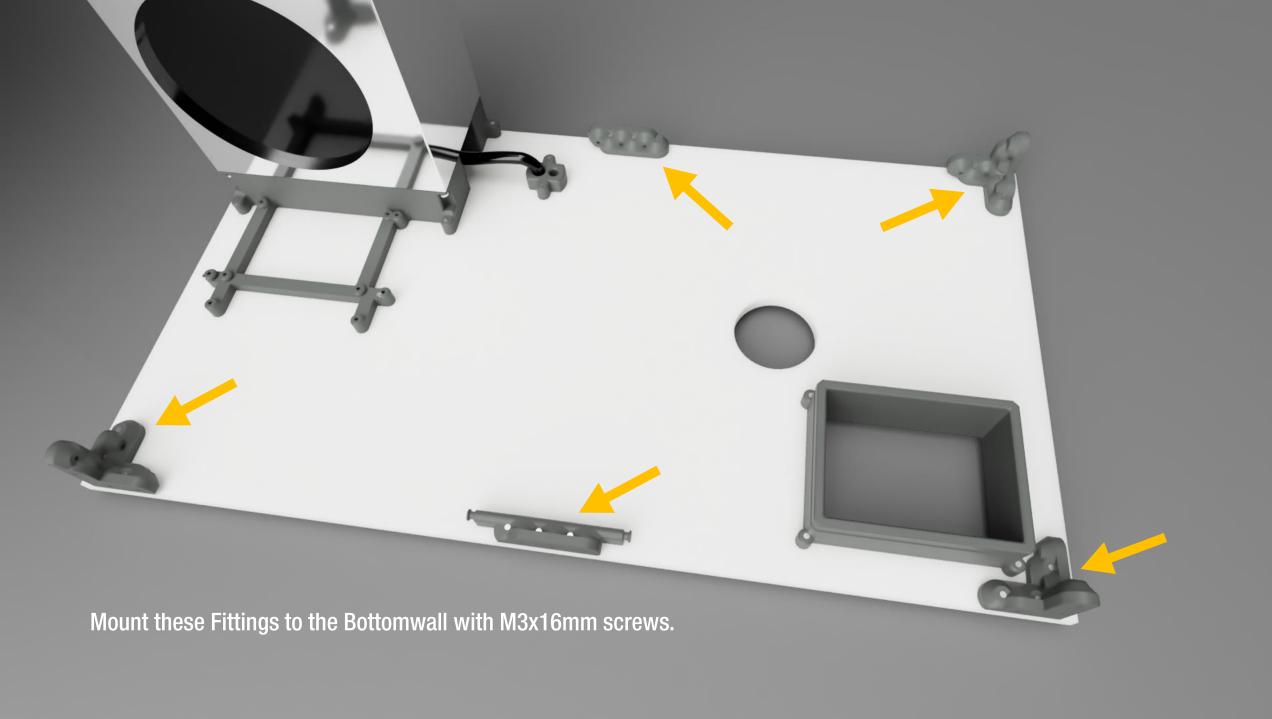
Mount the PSU on the Foundation ...



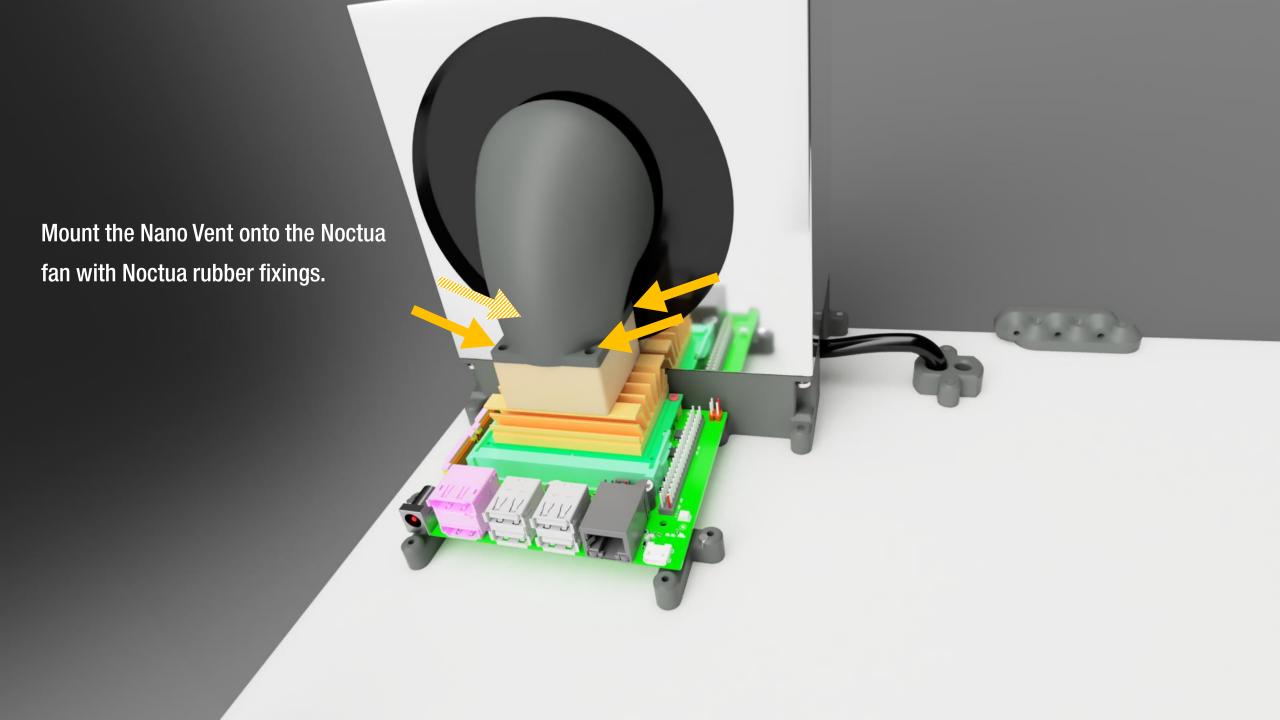


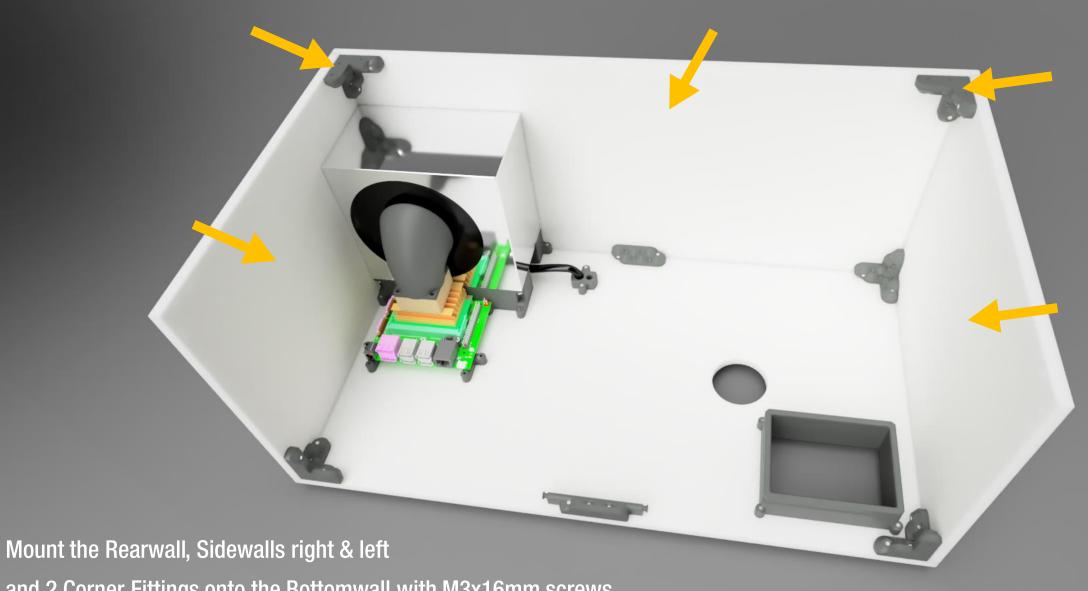


Mount the Airintake on the Bottomwall with 4 M3x16mm screws. (wrap a gaze-mesh over the Airintake and fix with rubber band)

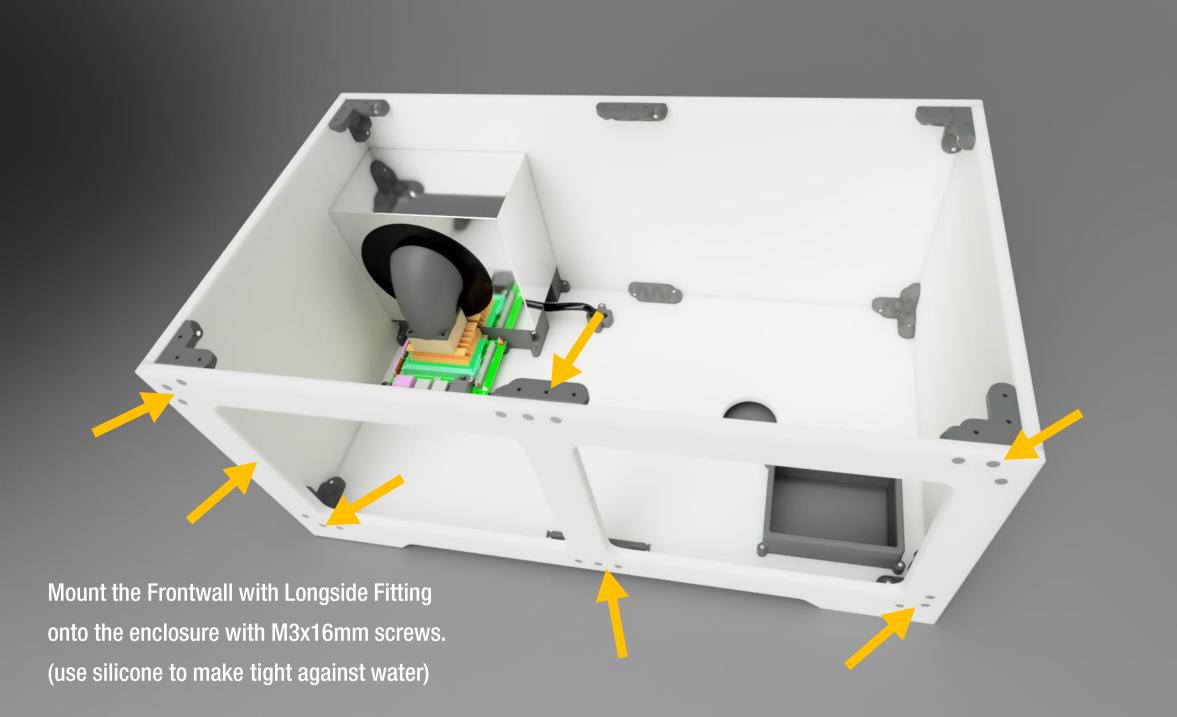


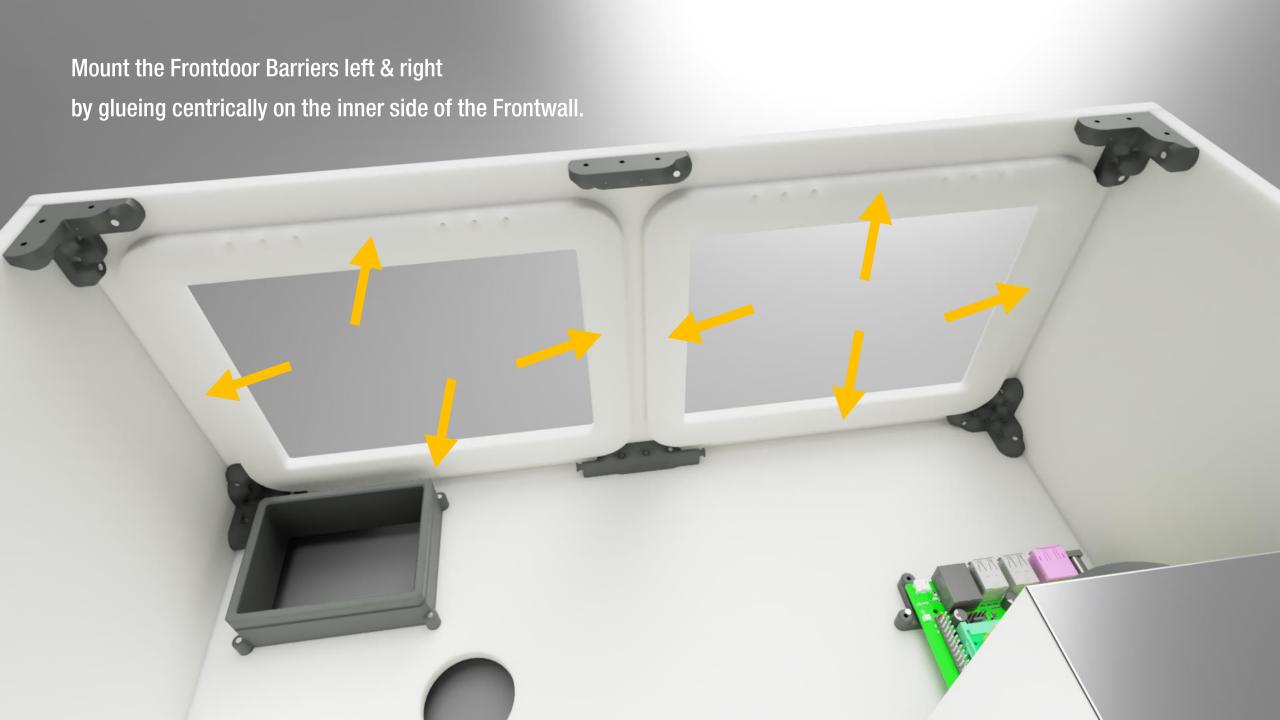


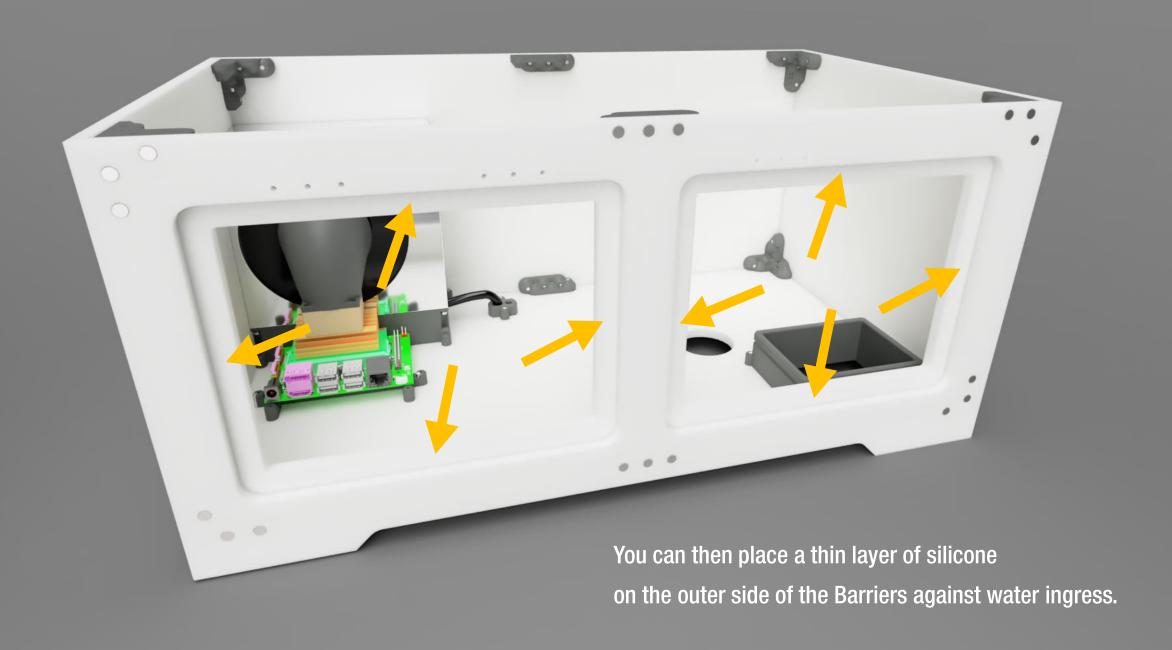


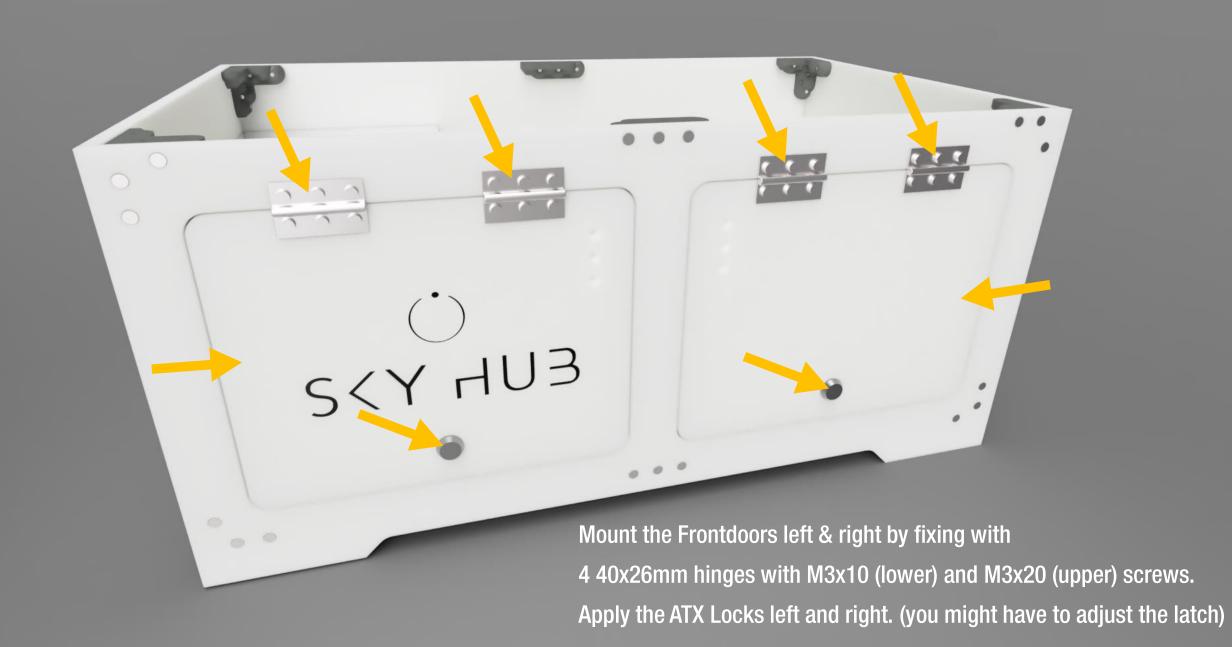


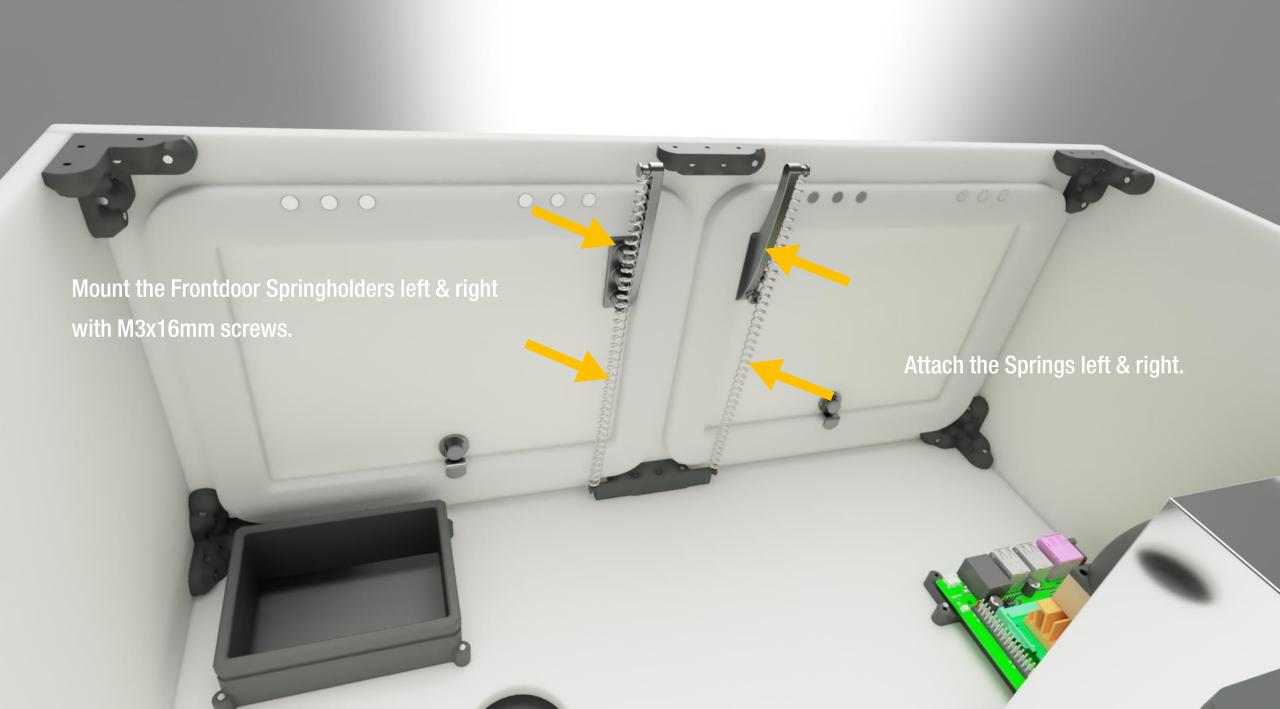
and 2 Corner Fittings onto the Bottomwall with M3x16mm screws. (use silicone to make tight against water)

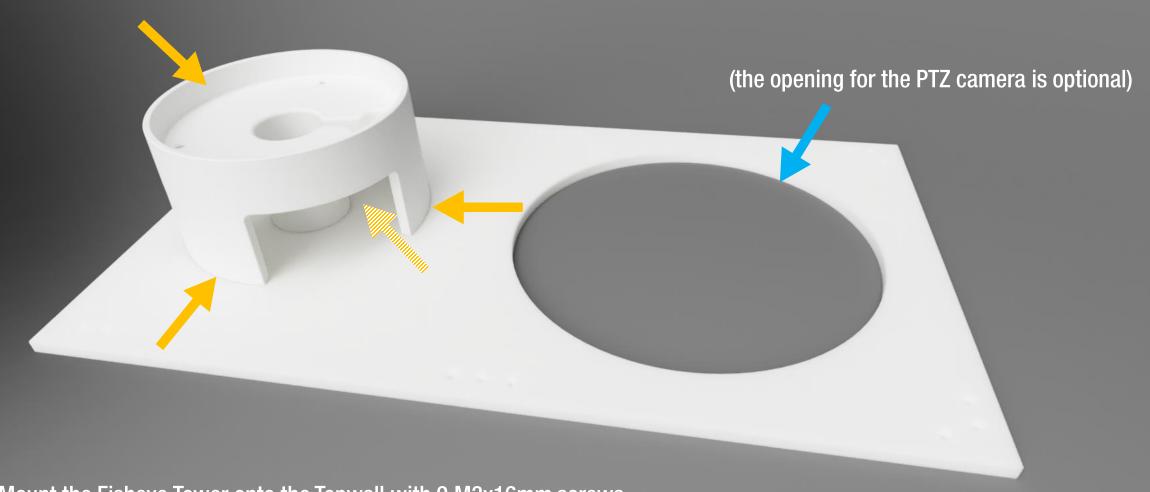












Mount the Fisheye Tower onto the Topwall with 9 M3x16mm screws. (use some silicone on the inner rim next to the Topwall)



Mount the Topwall onto the enclosure with M3x16mm screws. (use silicone to make tight against water)

Place the Fisheye cameras mounting plate onto the Fisheye Tower and fix with 3 M4x16mm screws.

Take the Fisheye camera, funnel the cabling through the inner tube and turn the camera until locked on the plate.



# SkyHub Enclosure v1

with closed doors

