



Virtual Biomedical and STEM/STEAM Education

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Laboratory hands on skill course

Laparoscopy VR Trainer

Controller Adapter Usage Manual



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1. 3D print the file out of a softer type of PLA, no need for harder or tougher material, this is meant to be cheap and accessible.
Filename: Q2controller_laparoscopyAdapter.stl
2. Get 2 rods of preferably aluminium, plastic or wood with the following dimensions. Radius: 3 mm (Diameter: 6mm), Length: 360 mm (36 cm). We used vitrage-curtain holders and modeller plastic rods, but anything similar works.
3. (Optional) Get 2 pieces of screws with a radius of 2mm (diameter: 4mm) and attach the rod to the base of the adapter. Glue may be used as well.
4. Snap the adapter into the ring of the Quest 2 controller. PLA is flexible enough to not break. The ring of the controller is flexible enough to not break.
5. Get a cardboard box and make 2 holes in the middle, 160mm (16cm) apart from each other.

TIP: When starting the app, rest the controllers in the holes while the startup logos play.



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