Oak Compact Joystick - U
3D PRINTING GUIDE

Makers Making Change
A Neil Squire Program

3D Printing Summary

Metrics	Enclosure and Microcontroller Mounts
Total Print Time (min)	4:54
Total Number of Components	4
Typical Total Mass (g)	63.6
Typical Number of Print Setups	1

3D Printing Settings

Print File Name	Qty	Total Print Time (hr:min)	Mass (g)	Infill (%)	Support (Y/N)	Layer Height/ Nozzle Diameter(mm)	Notes (orientation, special settings, etc.)
Enclosure_Top v0.2.stl	1	2:31	35.36	20	N	0.2/0.4	- Print in given orientation
Enclosure_Bottom v0.2.stl	1	2:11	27.24	20	N	0.2/0.4	- Print in given orientation
MCU_Mount v0.2.stl	2	0:12	0.5	20	N	0.2/0.4	- Print in given orientation
Optional Prints							
Joystick_Camera_Mount_ Adapter v0.2.stl	1	0:54	8.5	20	Y	0.2/0.4	- Print in given orientation
Convex_Topper v0.2.stl	1	0:29	6.46	20	N	0.2/0.4	- Print in given orientation
Concave_Topper v0.2.stl	1	0:42	8.46	20	N	0.2/0.4	- Print in given orientation
Cylindrical_Topper v0.2.stl	1	2:18	22.29	20	N	0.2/0.4	- Print in given orientation - Print with 6 perimeters
Goalpost_Topper v0.2.stl	1	3:25	35.84	20	Y	0.2/0.4	- Print in given orientation - Put a support blocker on the central mounting hole

Post-Processing

- Remove any supports from the camera mount and goalpost topper if printed.

Customization Options

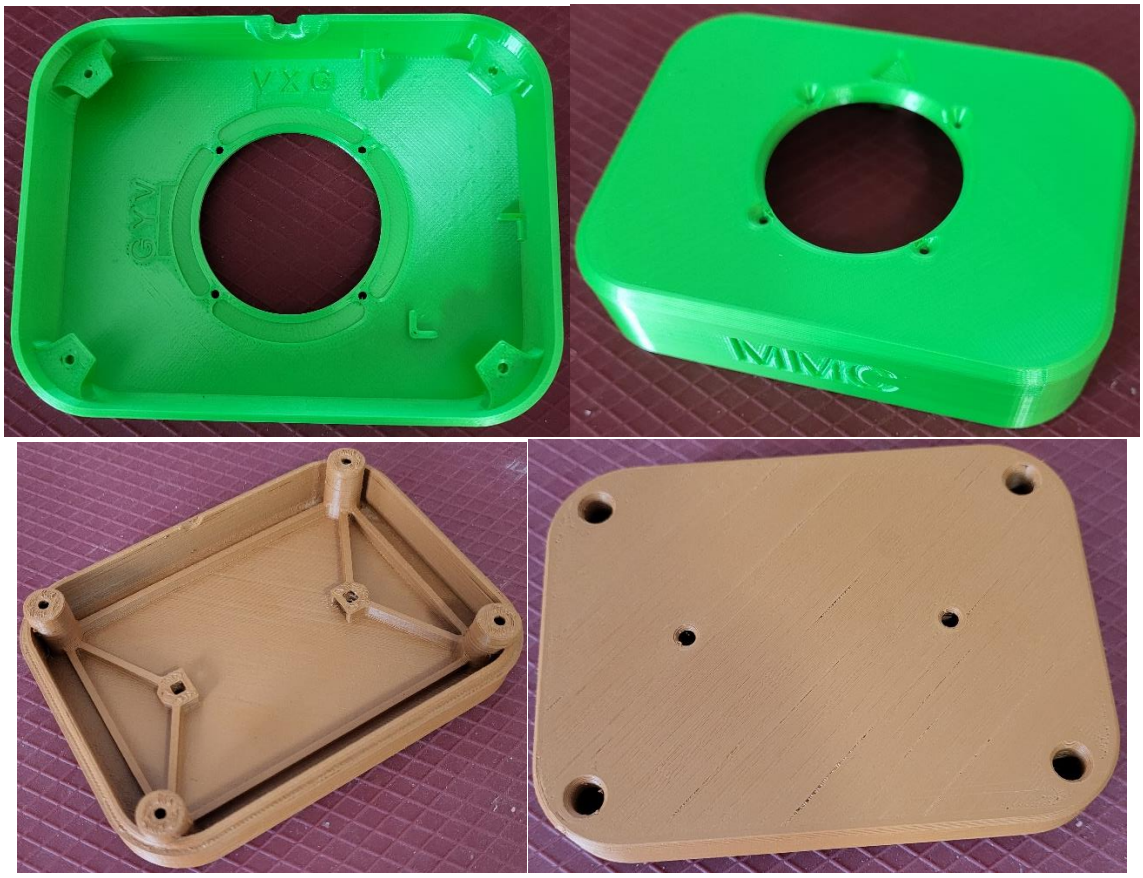
- The optional topper prints can be used to customize the joystick to users. Extra materials such as foam, felt, instamorph, etc. can also be added to further customize the joystick toppers.
- The camera mount adapter can be used to mount the joystick for a user's custom set-up.

CC BY-SA © 2023 by Makers Making Change.
This work is licensed under the CC BY SA 4.0 License: http://creativecommons.org/licenses/by-sa/4.0
Files available at https://github.com/makersmakingchange/Oak-Compact-Joystick

Oak Compact Joystick - U
3D PRINTING GUIDE

Examples of Quality Prints

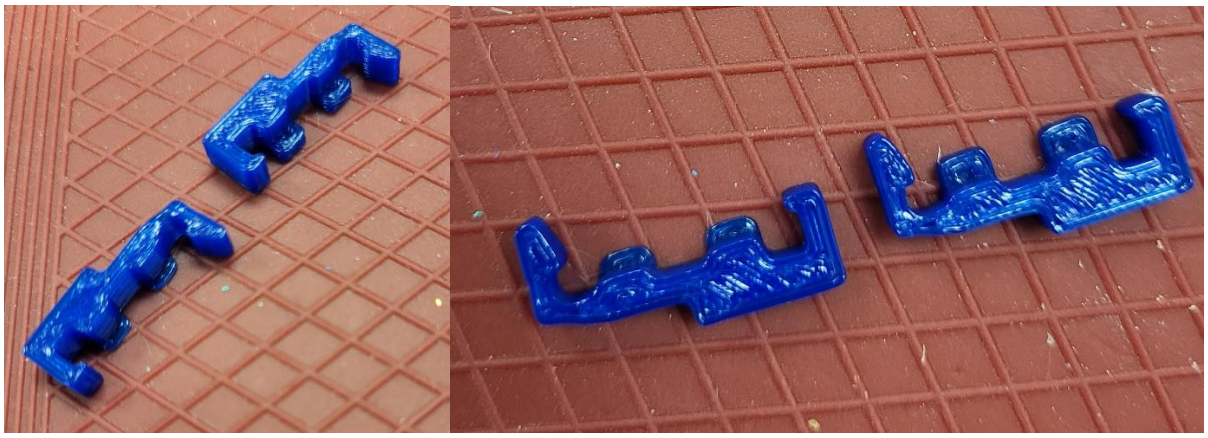
Photos of the Enclosure



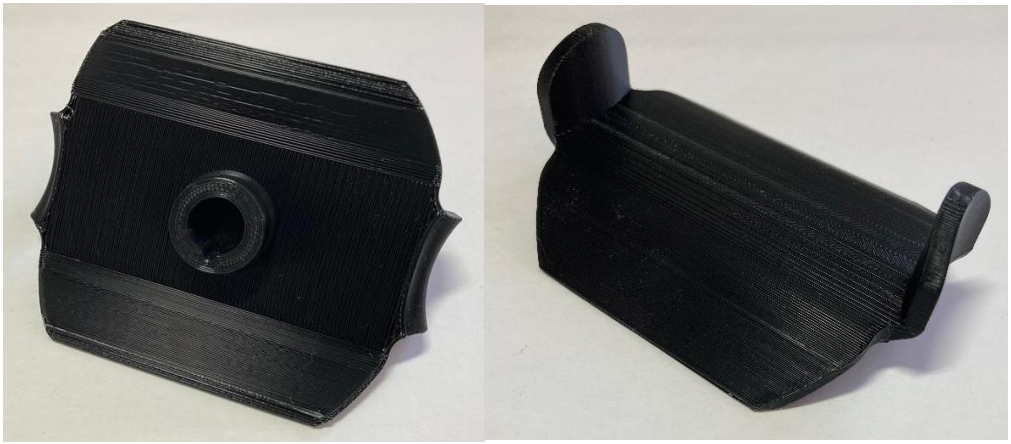
BY-SA © 2023 by Makers Making Change.
This work is licensed under the CC BY SA 4.0 License: http://creativecommons.org/licenses/by-sa/4.0
Files available at https://github.com/makersmakingchange/Oak-Compact-Joystick

Oak Compact Joystick - U
3D PRINTING GUIDE

Photos of the MCU Mounts



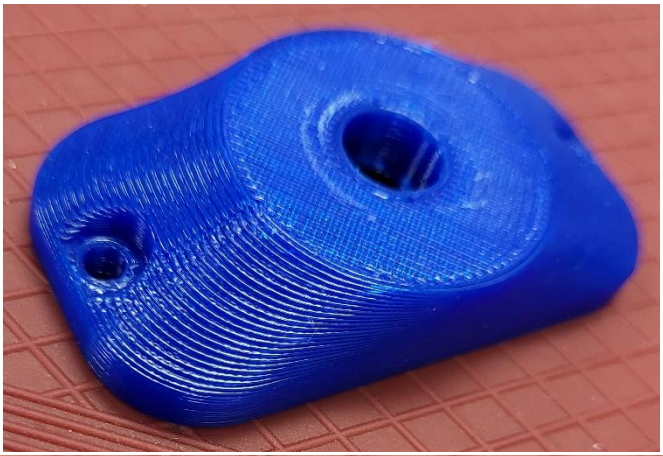
Photos of Toppers

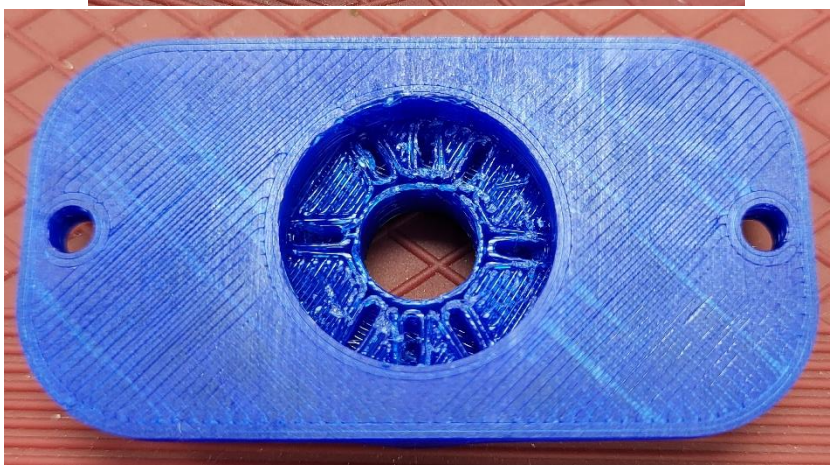


© 2023 by Makers Making Change.
This work is licensed under the CC BY SA 4.0 License: http://creativecommons.org/licenses/by-sa/4.0
Files available at https://github.com/makersmakingchange/Oak-Compact-Joystick

Oak Compact Joystick - U
3D PRINTING GUIDE

Photos of Camera Mount





© 2023 by Makers Making Change.
This work is licensed under the CC BY SA 4.0 License: http://creativecommons.org/licenses/by-sa/4.0
Files available at https://github.com/makersmakingchange/Oak-Compact-Joystick