



## Trackball 15

j jfedor

[VIEW IN BROWSER](#)

updated 8. 2. 2022 | published 8. 2. 2022

### Summary

Zero-button USB trackball mouse

[Gadgets](#) > [Computers](#)

This is a functional zero-button USB trackball. Click with your keyboard or some other way.

It was made using:

- a 38mm billiard ball
- PMW3360 optical sensor
- the PCB from here: <https://github.com/jfedor2/rp2040-pmw3360>
- 2.5mm zirconium oxide (or silicon nitride) bearing balls
- M3x4 screws for mounting the PCB
- M3x12 flat head screws for assembling the case
- a USB cable

I printed the parts at 0.20mm layer height, they don't need supports.

# Model files



**trackball15-top.stl**



**trackball15-bottom.stl**



**trackball15.step**

## License

This work is licensed under a  
[Creative Commons \(4.0 International License\)](https://creativecommons.org/licenses/by-sa/4.0/)



**Attribution-ShareAlike**

- 
- ✗ | Sharing without ATTRIBUTION
  - ✓ | Remix Culture allowed
  - ✓ | Commercial Use
  - ✓ | Free Cultural Works
  - ✓ | Meets Open Definition