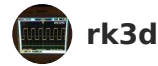




## Laser Level Mounting Pole PVC



rk3d

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### Summary

Adjustable pole that extends between the floor and ceiling for mounting a laser level.

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[laserlevel](#)

I needed something to mount my laser level to hang some pictures up. The laser level comes with a mount that is basically a clamp with a couple points of articulation. It works great if you have something to clamp it to, but if not it's pretty useless. I was initially going to print some parts to make a tripod, but this was simpler and ended up being a little easier to use in tight spaces. Essentially, I was going for a poor man's version of this [telescoping pole](#).

### Additional materials

- ~ 5 ft of 1" diameter schedule 40 PVC pipe
- ~ 5 ft of 1-1/4" diameter schedule 40 PVC pipe
- 1 8-32 Thread 1/4" heat-set threaded insert (<https://www.mcmaster.com/94459a320>)
- 1 8-32 Thread 3/4" screw (<https://www.mcmaster.com/90272A197>)

## How to use

Extend the inner pipe until it reaches the ceiling and then tighten the clamp with a screwdriver. Then turn the nut to add enough tension to hold the mount tight.

## Improvements

This was just a proof of concept, so it could be greatly improved. A couple things I noticed:

- The clamp mechanism doesn't always have enough clamping force. Adding a piece of adhesive-backed rubber to the clamp might be an easy way to increase the holding power.
- Needing a screwdriver is annoying - it would be great to just have a knob
- Better yet would be to design a new clamping mechanism that would compress around the pipe as it's twisted
- The pipe isn't as stiff as I expected - maybe switch to metal or use thicker pipe

## Print Settings

### Printer Brand:

Robo 3D

### Printer:

R1 ABS + PLA Model

### Rafts:

No

### Supports:

No

Category: Tools

# Model files



**base\_1.stl**



**nut.stl**



**ceiling\_bracket\_1.stl**



**test\_ring\_for\_1in\_id\_pvc.stl**



**clamp\_1.stl**



**tensioning\_threads.stl**

[Find source .stl files on Thingiverse.com](#)

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