



Assembling Scope

1. Examine **Main Body** under a microscope and remove any plastic burrs and obstructions to the light paths.
2. Slide the **Achromatic Lens** down the emission path until it sits flush against the aperture ring above the emission filter slot. Inspect fit under microscope and adjust if necessary.
3. With the coated surface facing the incoming light, use forceps to slide the **Excitation Filter, Dichroic Mirror, and Emission Filter** into their respective slots until their sides are flush with the **Main Body**.
4. Place the **Half-Ball Lens** in spherical opening (optical glue is optional). Inspect under a microscope to make sure the lens surface is flush with the plastic.
5. Screw the **Excitation LED PCB** in place using 1mm self-tapping screws.
6. Screw the **Filter Set Holder** onto the **Main Body** using 2 to 3 1mm self-tapping screws.
7. Using a 00-80 tap, tap the **Baseplate** and **Focusing Slider** set screw holes.
8. Press fit magnets into the 3 holes on the bottom of the **Main Body** and the 3 holes in the **Baseplate** making sure the polarity of the magnets are correct.
9. Epoxy, screw, or rubber band the **CMOS Imaging Sensor PCB** onto the **Focusing Slider** orienting the LED wires to the side of the scope with the **Excitation LED PCB**.