



Explanation of Controls

Knob A: Turn to adjust reticle (crosshairs); do this first.

Adjust B: slide in/out to focus the slit.

Knob C: Lock the telescope to the base.

Knob D: Lock the black inner table to the base.

Knob E: Lock the silver outer ring (with angle markings) to the telescope.

This knob is not visible in this picture, but is similar to knob C.

Knob F: Lock the upper table (grating mount).

Knob G: Adjust the slit width.

Knob H: Rotate the slit.

General Procedure

- Turn the inner (black) table so that the fine scale reading is somewhere on the side.
- Place the grating on the upper table, and lock it to the inner table.
- Lock the inner table to the base.
- Aim the telescope at the center of the slit (0th order... all colors).
- Turn the outer ring so that it indicates 0.00° as read by the inner table.
- Lock the telescope to the outer ring. Neither should be locked to the base.

The Vernier Scale

Notice that the coarse measurement is to the nearest half a degree. Once you know the result to the next lowest half degree, use the inner scale to determine the number of **minutes** to add to your prior value. The number to add is the line that goes straight across.

In this example, the angle is $21^{\circ}30' + 23' = 21^{\circ}53' = 21^{53}/_{60}{}^{\circ} = 21.883^{\circ}$.

