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Ion Gun Alignment

If your system has an electron gun with TV imaging capability, a quick and easy way to line up your gun is to image a piece of SiO_2 (1000Å works well).

1. Adjust the SiO_2 to the focal point of the analyzer.
2. Set the ion gun for low current (high condensor value) and small spot size (no raster).
3. With the TV image (ABS or SED mode) magnification set to a low value (such as 20x to 50x), image the SiO_2 sample.
4. Turn on the Ion Gun high voltage. You will see the ion beam spot as it fluoresces on the SiO_2 (you may need to adjust the electron current or SED voltage to see the ion beam spot).
5. Adjust the ion gun mechanical and electrical offsets to center the spot on the TV image.