



Tech Tips

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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 SiO₂ (1000Å works well).

1. Adjust the SiO₂ 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 SiO₂ sample.
4. Turn on the Ion Gun high voltage. You will see the ion beam spot as it fluoresces on the SiO₂ (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.