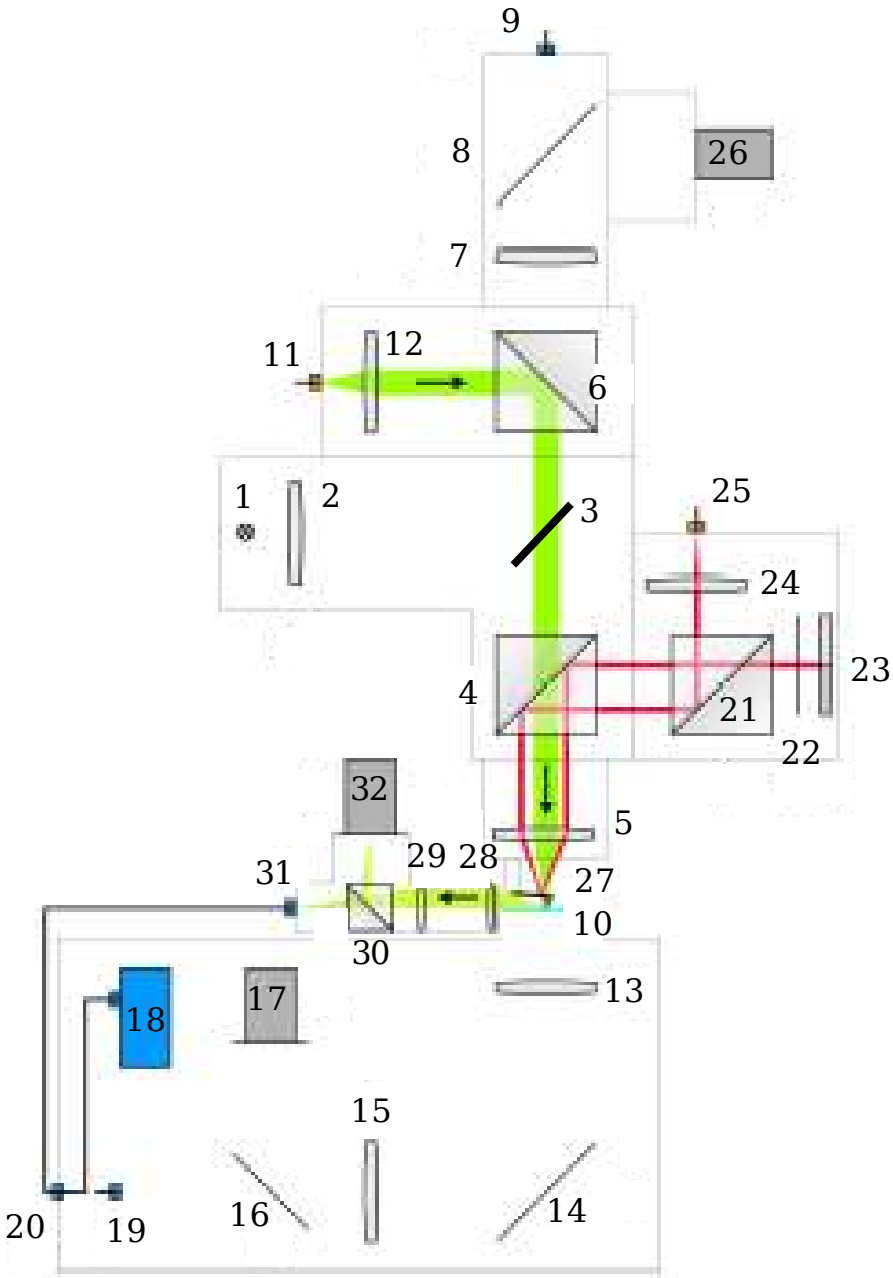

reflection mode SNOM beampath

1. Halogeon lamp
2. lens
3. Beamsplitter in slider position I
4. Dichroic
5. Microscope Objective
6. 50:50 beamsplitter
7. Tube lens
8. Sliding prism to enable eyepice CCD camera (26)
9. SMA connector (pinhole)
10. your sample
11. FC connector
12. achromat
13. Microscope objective
14. Mirror
15. Tube lens
16. Flip mirror
17. B/W CCD camera
18. APD (detector)
19. SMA connector (trans.)
20. SMA connector (refl.)
21.-25. Optics & Detector for beam deflection laser
26. Eyepiece CCD
27. Cantelever
28.-30. Reflection microscope
31. SMA connector
32. B/W camera

Notes:

1. To filter out the excitation wavelength, 1”∅ filters can be fit between 28 & 29 (reflection SNOM) or 6 & 7 (reflection confocal). For transmission modes, any filter that stands with its active area 2.5”-3.5” high can be placed between 14 & 15.
2. The excitation beams currently have λ= 488nm and 650nm, and the beam deflection laser has λ= 785nm. This instrument is not set up to operate with excitation wavelengths longer than 700nm for SNOM..
3. The scan table (at 10) has a X,Y,Z range of 100,100,20 µm and 1.5,1.5,0.3 nm resolution