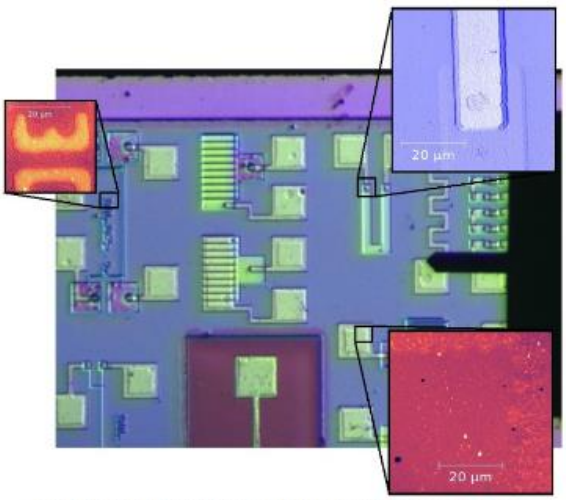
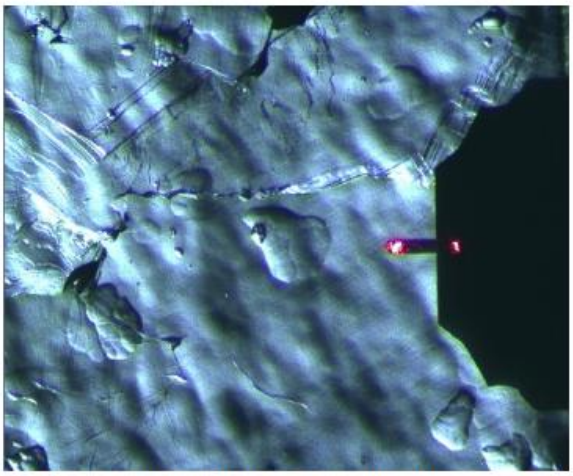
SA AFM – Video Microscope

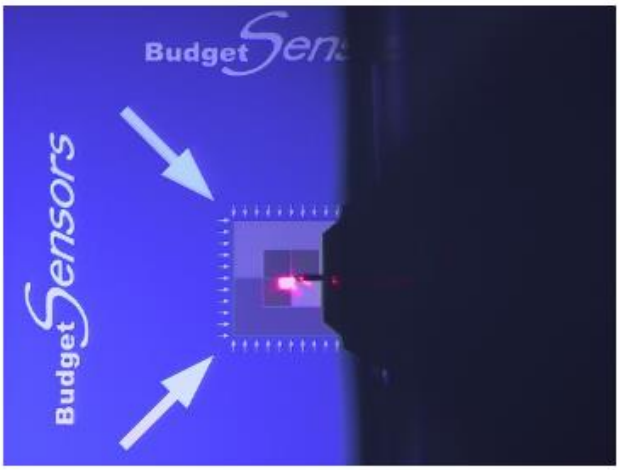
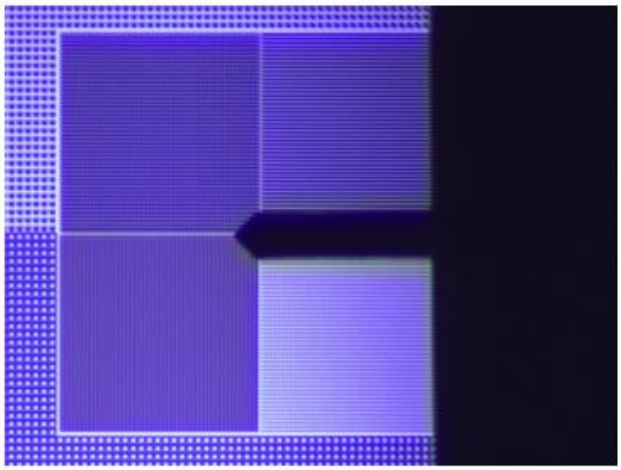
A video optical microscope in an AFM serves three functions: aligning the laser onto the cantilever in the light lever AFM, locating surface features for scanning, and facilitating probe approach. The SA AFM includes a high performance video optical microscope along with a 3 camera, light source, microscope stand, and Windows software for displaying images.



Here the video optical microscope allows viewing features on a test structure. The AFM cantilever is on the right. Three images show results of areas selected for AFM scanning.



The video optical microscope zooms in to show an HOPG sample surface and the AFM cantilever.

7 to 1 Mechanical Zoom

With a 7:1 mechanical zoom, it is possible to use a large field of view to locate features for imaging. It is then possible to zoom in to get very high resolution video microscope images.