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The new microscope, manufactured by NanoMagnetics Instruments, looks somewhat similar to a traditional optical microscope, but its functionality and capabilities are vastly different.

Instead of looking through an eyepiece lens at samples illuminated with light, the AFM generates a computer image after a needle systematically scans the sample and sends the information to be analyzed by software.

The needle deflects upward when the surface rises and downward in valleys. A computer registers the amount of deflection. The end result is a topographical Shulman explained.

The resulting