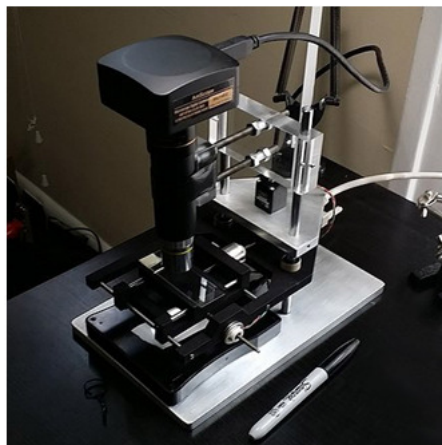


For immediate release 4.28.2014. Investor or general/sales inquiries email tcd@tensortek.com



Introducing the **AutoMicro3D™** 3-D scanning microscope: a high speed, *affordable* (base system <\$5k), customizable, automated whole slide/material scanning system. The system combines custom stepper motors/controllers, new USB3.0 imaging technology, and a unique *3-D printed* X-Y-Z stage design (patent pending) to achieve fast and accurate positioning/imaging performance. A typical 22x24mm scan at 10x (0.5um pixel resolution) is *less than 3.5 min*.

A novel capability of the new AutoMicro3D system is the ability to image **thick** specimens with **dual-illumination**. This provides imaging of specimens with (or without) the cover slip. Scans of fresh tissue specimens and/or opaque samples (e.g. tissue/materials/specimens) can be performed. In addition, dual-illumination enables a variety of micro-imaging solutions ideal for metallurgy, circuit, and other (advanced) imaging/inspection applications including polarized light.

SPECIFICATIONS:

- 10x Plan Achromat objective is standard (other objectives are available as options from 2x to 20x)
- Up to 0.35 $\mu\text{m}/\text{pixel}$ image resolution (with 14.4 Mpixel USB3.0 camera standard)
- Precision NEMA and custom motors with current-controlled stepper positioners
- **3-D**, Z-step imaging (better than 50nm per step in Z-axis)
- **Fast acquisition:** *Under 1 min* for full cover slip (22x24 mm) at 4x; under 3.5 min for 10x resolution.
- USB3.0 imaging and high speed positioning/motion control via provided software GUI
- Imaging optical train and camera system are easily customizable (both hardware and software)
- Fast autofocus using in-house programmed edge detection algorithms
- Options include polarization, **dual illumination** objectives, and custom mountings for non-slide specimens

VISIT: <http://tensortek.com> for more information and examples of large scale 'zoomable' scans.

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