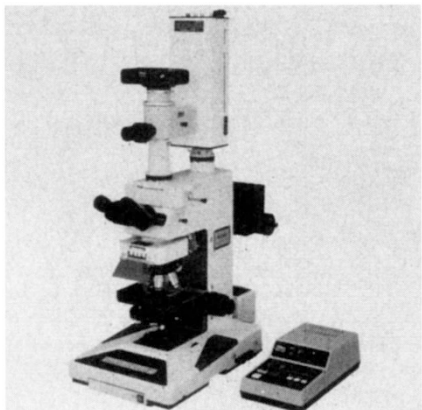


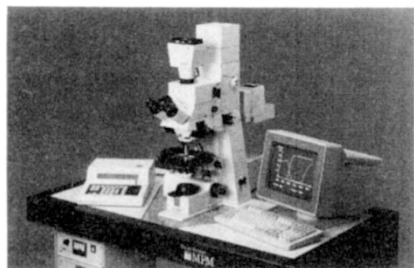
# MICROSCOPY PRODUCTS



## Modular Microscope

The Microphot SA, a modularly constructed microscope from Nikon (Melville, NY), is designed for image analysis, photometry, and quantitative video. With dual photo/video ports, it accommodates two photo or video systems simultaneously, including closed-circuit television, photometry systems, and photomicrographic devices. Among possible optical techniques are brightfield/darkfield, reflected light, episcopic fluorescence, phase contrast, differential interference contrast, polarized light, and metallurgical reflected light.

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## Microscope Photometers

The MPM 400 and MPM 800 microscope photometers from Carl Zeiss (Oberkochen, Germany) are all-purpose, high-resolution instruments providing analytical capability. The systems link quality optics with fluorescence and absorbance measurements. According to the manufacturer, the new models are more convenient to use and provide better fluorescence applications than earlier versions. Zeiss provides PC-based software for control of microscopic and measuring functions.

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## Fluorescence Photometry

The Photoscan™ fluorescence photometry system for measuring low-level intracellular ions in living cells is available from Nikon (Melville, NY).

The system provides digital photometers for measuring photon counts per millisecond, along with software for single-channel or dual-channel data analysis. It integrates with all fluorescence microscopes and connects to IBM-compatible PCs. Three versions are available. Photoscan 1 studies single-emission fluorochromes or dual-emission probes for calcium analysis, while Photoscan 2 and Photoscan 3 study dual-excitation-ratio fluorescence probes.

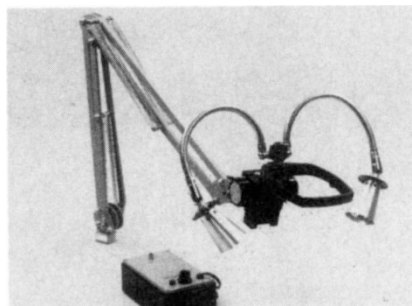
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## Monitor Microscope

The hand-held Monitor Microscope from Camlab (Cambridge, U.K.) gives up to 1000x magnification without sample preparation. The probe is placed on the subject, and the image appears on a standard video screen. Lenses for 20x, 50x, 100x, 200x, 500x, and 1000x are available. The company proposes that the instrument would be suitable for quality control and presentation purposes.

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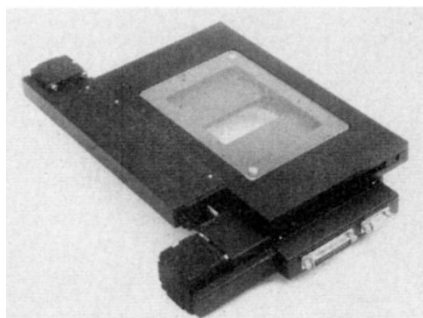


## Support and Illumination

Scientific Instruments (Skokie, IL) presents the combination Dynalume® Stereo-Flex support stand and Stereo-Tech illumination system. The support stand—which supports up to nine pounds of auxiliary equipment—has a global-positioning flex-arm assembly that provides counter-balanced positioning for microscope-focusing arms and pods. The illuminator uses tungsten-quartz-halogen technology to provide up to 25,000 foot candles. Bulb life expectancy is rated at 10,000 hours, mea-

sured at full intensity. Researchers can place a remote low-voltage power supply up to five feet from the work area.

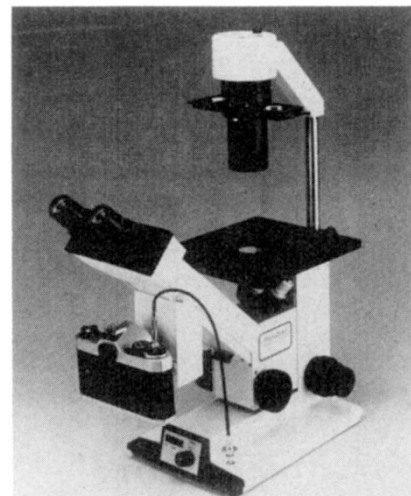
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## Microscope Stages

Prompt delivery and a simple command set make Stoelting's (Wood Dale, IL) stepper-motor microscope stages ideal for image-analysis-software applications. The precision stage comes with a choice of controllers and other components to let researchers configure a system to meet their needs. A fully configured system includes a stage, controller with serial port, and autofocus cards with video-camera input.

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## Inverted Microscope

The PhotoZoom inverted microscope from Leica (Buffalo, NY) offers several features. These include a zoom system, built-in 35 mm camera/video port, and interchangeable stages, as well as course and fine focus and a reticle slider between the objective and zoom system for constant calibration. Among applications are histo-compatibility, oncology, immunology, gene manipulation, and quality/process control.

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