

# Microscopic detail

Microscopes and their accessories.

## Eclipse TE2000

Nikon [www.nikonusa.com](http://www.nikonusa.com)

*Inverted microscope for live-cell imaging*

The TE2000 features a multi-port design and stratum structure for flexible configuration. Multiple optical accessories can be used, supporting multiple input illumination sources and output detector functions. Several epifluorescence techniques can be used simultaneously or sequentially, allowing for techniques such as high-resolution deconvolution 3D images, which may be incorporated together with laser illumination techniques. Three models are available: the basic TE2000S has two output ports, TE2000U with four output ports, an optional fifth user-defined position and an integrated magnification changer, and TE2000E, a high-precision Z-focus automated model with five output ports.

## i6000

bioGenex [www.biogenex.com](http://www.biogenex.com)

*All together now*

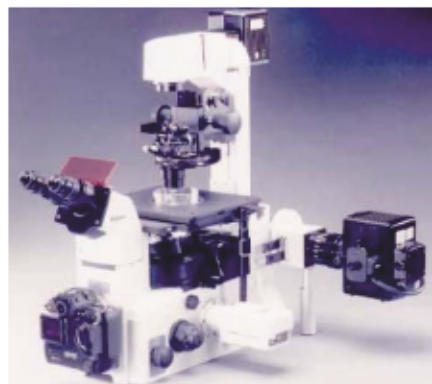
Described by BioGenex as an 'all-in-one/all-at-once' instrument, the i6000 automated staining system can handle 60 slides and 60 reagents at up to 250 slides per 8-hour period. It can process special stains, immunohistochemistry, *in-situ* hybridization and haematoxylin-eosin slides in the same run. Results are standardized and the instrument operates in the bar-code mode for optimum workflow.

## Cryostat anti-roll system

Leica [www.leica-microsystems.com](http://www.leica-microsystems.com)

*Keep it in the frame*

Leica's anti-roll system for cryomicrotomy consists of a reusable metal frame and a glass insert. All four edges of the insert can be used.



Live cells from all angles — Nikon's TE2000 series.

Spacers on the back of the metal frame ensure optimum distance to the knife-holder to facilitate sectioning without manual adjustments. All new Leica cryostats are equipped with the system for CE disposable blade knife-holders and CN steel knife-holders. Customers with existing CE and CN knife-holders can add the anti-roll system to their cryostats.

## R-Gent SE-EM

Electron Microscopy Sciences

[www.emsdiasum.com](http://www.emsdiasum.com)

*A silver lining for electron microscopy*

R-Gent SE-EM silver enhancement reagents are intended to enhance gold particles, particularly Aurion Ultra Small Particles, in EM visualization of immunodetection and *in-situ* hybridization experiments. The reagents are light-insensitive with low viscosity, high reproducibility, low auto-nucleation and time-controlled growth of particles.

## BX61 microscope

Olympus America [www.olympusamerica.com](http://www.olympusamerica.com)

*Motorized microscope and software suite*

The BX61 has a built-in, motorized Z-drive (0.01  $\mu\text{m}$  resolution) and can be equipped with a motorized nosepiece, condenser, reflected light or fluorescence illuminator and up to three six-position filter wheels. Its MicroSuite software includes the ScopeView control module for quick changes between transmitted brightfield or darkfield, phase contrast, DIC, polarized, fluorescence and reflected brightfield or darkfield modes.

## HISTO knife

Diatome [www.emsdiasum.com](http://www.emsdiasum.com)

*Through thick and thin*

The HISTO knife is designed for thick sectioning of specimens between 0.2 and 10  $\mu\text{m}$ .



Microscopist's best friend: diamonds, that is.

It offers serial thick sections without chatter or compression and with no need to change knives in the middle of sectioning. The sections obtained are thinner and the diamond edge is durable and consistent. The knife is available in 4, 5, 6, 8 and 10 mm diamond widths. It can be used with hard and soft materials and works with all ultramicrotomes as well as regular microtomes with retractable knife-holders in the return phase.

## Scanning stages

Prior Scientific [www.prior.com](http://www.prior.com)

*Expanded range for advanced imaging*

Prior Scientific has expanded its range of high-performance motorized scanning stages. Models are now available fitted with 1-mm pitch precision ground drive screws for finer resolution and superior repeatability. The stages are designed for more demanding imaging applications such as image tiling where very accurate positioning is required. A choice of 1 mm, 2 mm or 5 mm pitch drive screws is offered. The 2 mm stages are suitable for most routine positioning applications, while a stage fitted with 5 mm pitch drive screws is aimed at high-speed applications.

## LyoVision

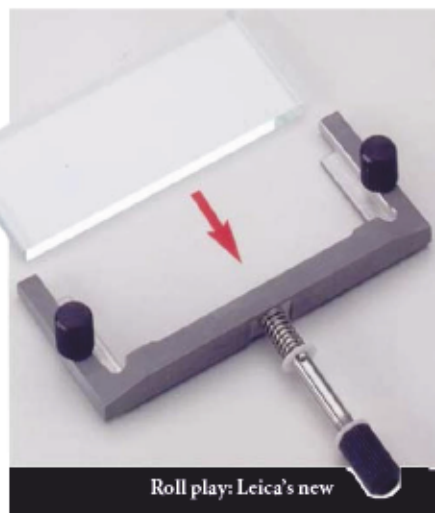
Biopharma Technology [www.biopharma.co.uk](http://www.biopharma.co.uk)

*For film buffs*

LyoVision is a new integrated suite of software for use with the Lyostat freeze-drying microscope system. It allows users to combine and display the images captured on camera with the temperature values, in the same file. This allows snapshots and movies of the freeze-drying process to be recorded and archived. The images can be saved as JPEGs with the user name and sample identity, date, time and temperature of the sample.

*These notes are compiled in the Nature office from information provided by the manufacturers.*

NATURE | VOL 417 | 15 JUNE 2002 | [www.nature.com/nature](http://www.nature.com/nature)



Roll play: Leica's new