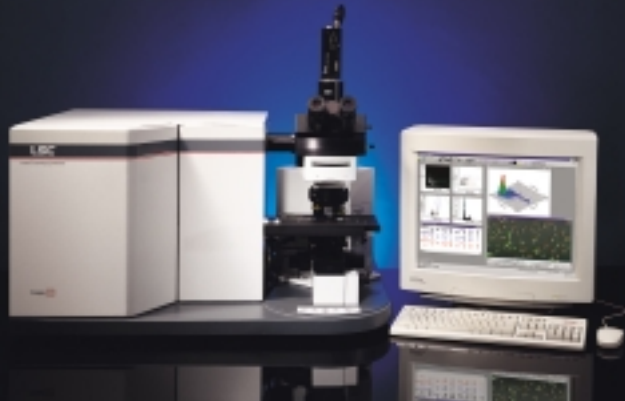




Laser Scanning Cytometer

SPECIFICATIONS



Software

User-friendly WinCyte[®] software operates under Microsoft Windows NT. All interaction with the cytometer takes place through the easy-to-use graphical user interface. Settings for each protocol, as well as data displays are stored for later use. Advanced image processing algorithms segment events in the specimen, and perform corrections for local background fluorescence. Stoichiometric quantification of fluorescence makes DNA and other critical measurements possible. Morphological features, and subcellular segmentation add depth to the impressive list of features measured for each event. Data files follow flow cytometry standard (.fcs) formats, and analysis tools include statistical, histogram, scattergram, color gating and a host of other powerful techniques.

The Integrated LSC[®] System

Image processing, flow cytometry, and automated digital microscopy come together in the LSC, a powerful tool for rapid high content analysis of cellular, tissue, and other specimens. Analyzing specimens on the automated stage of an Olympus BX series microscope, the LSC excites fluorescent-stained samples with up to 3 different laser wavelengths, and acquires stoichiometric fluorescent and morphological data in as many as 5 detectors per laser.

Flexibility in specimen type is matched by the versatile options for visualization of specimens and analysis of data. Correlate the high content measurements for each cell or event in the data file with direct visualization through the microscope, or capture the image with digital camera or high quality laser scan imaging, including 3 dimensional Normarski-like laser scatter images.

Lasers	Blue (488nM) 20mW Argon Ion (Standard) Red (633nM) 5mW Helium Neon (Optional) Green (543nM) 4mW Helium Neon Violet (400nM) 30mW Diode	NEW Option ✓ NEW Option ✓
Detectors	4 photomultiplier tube fluorescence detectors with interchangeable filter blocks (2 standard) Diode light scatter detector	
Emission detection options	Blue, 460-485 nM Green, 515-545 nM Orange, 565-585 nM Red, 600-635 nM Crimson, 650-700nM Near-infrared, 750-800nM	NEW Option ✓ NEW Option ✓
Data channels	5 data channels per laser plus 1 semi-programmable added channel	
Microscope	Olympus BX-series microscope. Configurable with all Olympus accessories	
Visualization	Microscope eyepiece Video camera with analog monitor and digital frame grabber (standard monochrome or optional 3CCD color) Digital camera options for superior camera imaging High resolution laser scan imaging with CompuColor [™]	NEW ✓
Computer	Pentium III, 256 MB RAM, 10/100 NIC, 21" monitor, Windows NT 4.0 SP6 Workstation OS, WinCyte Analysis Software	





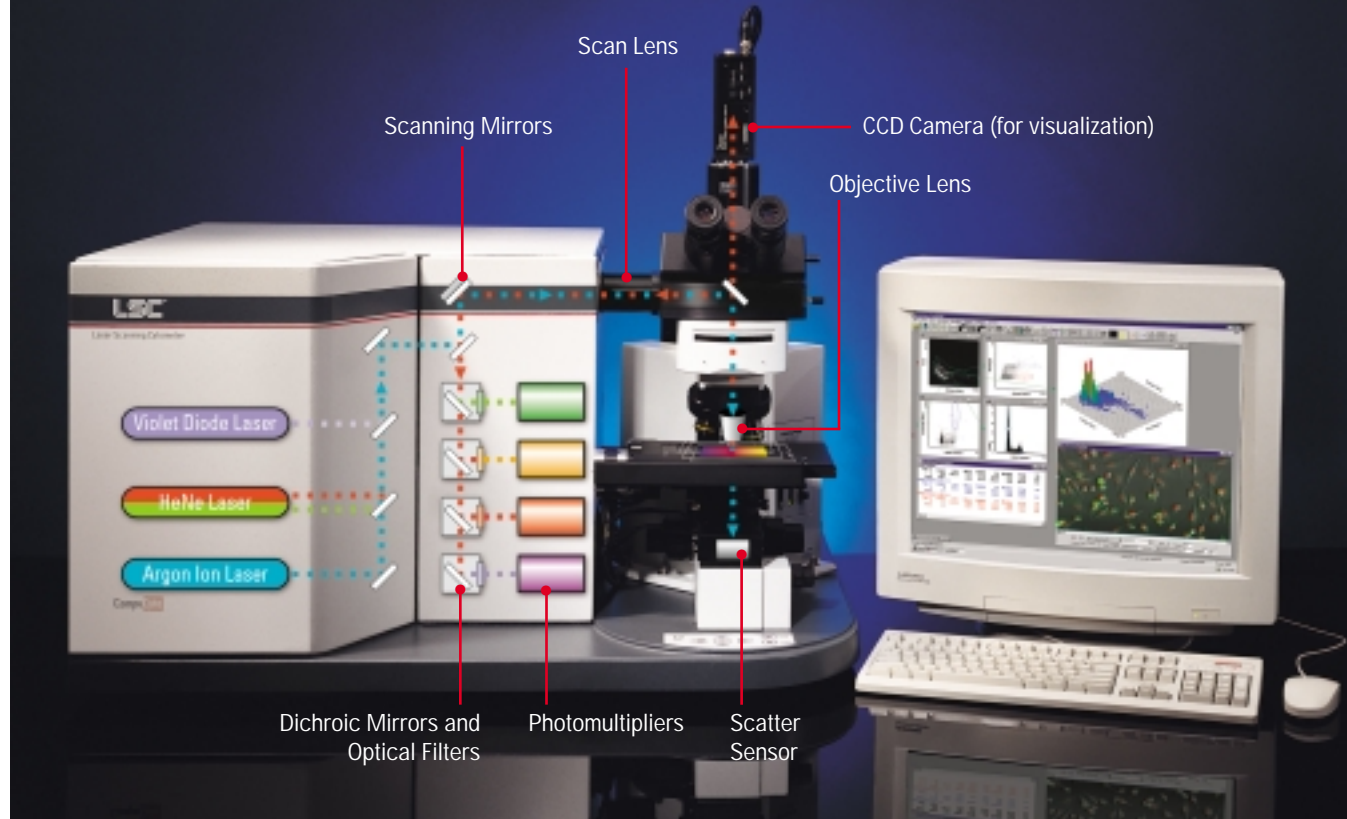
Laser Scanning Cytometer

Laser scanning technology. Directing one, two, or three coaxial laser beams to a scanning mirror, the LSC optics apply the scanned beam through the microscope objective lens onto the specimen. The specimen, which is affixed to a standard microscope slide, moves past the scanning laser beam on a motorized micro-stepping stage. As cells or other fluorescent objects pass through the scanning beam(s), the fluorescent light returns along the same path as the laser beam(s) and is collected in the wavelength-specific photomultiplier tubes (PMT's).

Four photomultiplier tube detectors record fluorescence emission in wavelengths from 460nm to 800nm. A photodiode scatter sensor detects scattered laser light for segmenting or brightfield imaging with Nomarski-like three-dimensional detail.

Visualize every segmented cell. The Olympus BX series microscope accepts all Olympus objectives and accessories for cell imaging.

The microstepping, automated stage affords precision relocation of any or every segmented cell in the specimen, for visualizing and confirming morphological features. Live image CCD color video or optional high resolution digital cameras make it possible to record cell images conventionally. Or, choose to rescan the specimen for detailed detector-specific fluorescence images that can be merged with brightfield scattered light and CompuColor™ — at the click of the mouse.



Maximum flexibility in specimen type, and in choice of fluorescent markers — that is the hallmark of the LSC. Excite with three different laser wavelengths in the same protocol, and detect fluorescence from 460nm to the near-infrared, measuring fluorescent content and local-

ization in hundreds of cells per minute. Then return to any segmented event in the data file to examine the fluorescent features and morphology. Powerful features and easy-to-use software make the LSC unrivaled for versatility.



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