Laser Scanning Cytometry in an inverted format with advanced microscopy options

- Simultaneously obtain multiple fluorescence channels with laser scatter or absorption information. Collect brightfield and laser-generated images from the same sample.
- Easily view specimens on-the-fly galleries or relocate to individual events after acquisition.
- Extend visual and measurement options with user-defined Virtual Channels and CompuColor™ imaging.

Lasers

- Blue (488 nM) 20 mW Argon Ion
- *Red (633 nM) 5 mW Helium Neon
- *Violet (405 nM) 30 mW Diode

Detectors

- 2 to 4 photomultiplier tube fluorescence detectors with interchangeable filter blocks. Solid-state light scatter detector

Emission detection options

- Blue, 445-485 nM
- Green, 515-545 nM
- Orange, 565-585 nM
- Red, 600-635 nM
- Crimson, 650-700 nM
- Near-infrared, 750-800 nM

Data channels

- 5 data channels per laser plus programmable virtual channels

Microscope

- Olympus IX-71 microscope

Autofocus option

- *Fast laser-based autofocus, independent of specimen fluorescence

Visualization

- High-resolution laser scan imaging with CompuColor™ Full range of microscopy visualization options

Specimen carriers

- Glass or plastic microtiter plates (6-well to 384-well formats), microscope slides, Petri dishes, chamber slides

Computer

- Pentium® 4 Processor, 1 GB RAM, 10/100 NIC, 120 GB hard drive, LCD monitor, Windows® XP Professional Operating System
- iCys™ Cytometric Analysis Software
- iBrowser™ Data Analysis Software

*Optional

488mW  3.0mW, 633nM  0.20mW, 403nM  1.5mW
High-content quantification and maximum visualization options

The iCys™ Research Imaging Cytometer opens new avenues of experimental design for investigations into cellular and tissue-based processes. The ideal platform for generating precision high-content data on a broad range of specimen types, iCys offers flexibility and a powerful analytical feature set.

iCys is the versatile analysis platform that combines the precise quantification of laser-based cytometry, the high content of automated image analysis, and the visualization and sample manipulation benefits of inverted microscopy.

Advanced laser scanning cytometry features

Combine the technological advances of LSC and iCyte with the flexibility of an inverted microscope. Perform high-content analysis of multiple sample types.

Computer-controlled laser scatter with multiple modes

Visualize the three-dimensional morphology of the specimen with protocol-driven settings for variable angle laser scatter and/or absorbance detection.

Variable resolution scanning

Scan larger areas for higher throughput analysis. Analyze with the spatial resolution best suited to the experiment, without compromising instrument sensitivity.

Scanned imaging combined with live visualization

Augment high-content data with imaging from stored laser scan files and real time brightfield or epi-fluorescence illumination.