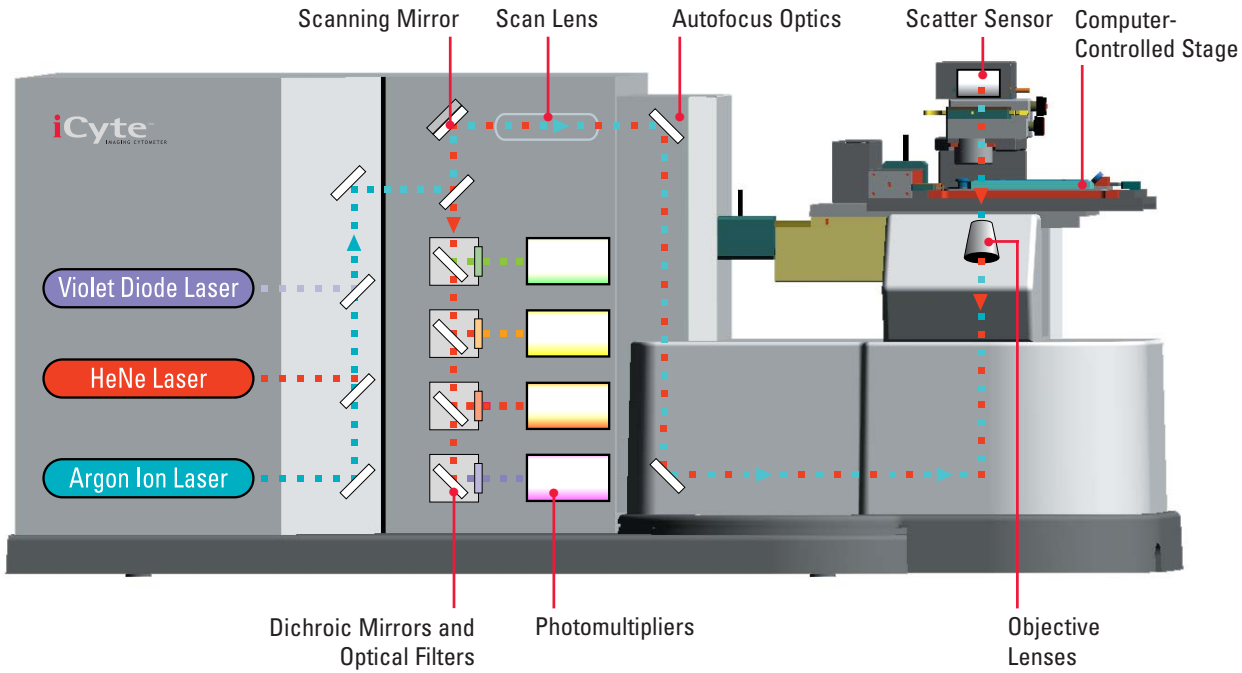
iCyte™
Automated Imaging Cytometer

SPECIFICATIONS

Laser Scanning Cytometry in an inverted format

The iCyte™ Automated Imaging Cytometer combines digital microscopy, image processing, and the population data analysis of analytical cytology to provide the highest information content.



Lasers	Blue (488 nM) 20 mW Argon Ion Red (633 nM) 5 mW Helium Neon Violet (405 nM) 30 mW Diode
Detectors	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-series microscope base
Autofocus	Fast laser-based autofocus, independent of specimen fluorescence
Visualization	High-resolution laser scan imaging with CompuColor™ and patented laser scatter brightfield imaging
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 *iCyte™ Cytometric Analysis Software* *iBrowser™ Data Analysis Software*

Laser light. Avoid direct eye contact. Class 3R laser product; according to IEC 60825: 1993 +A1 +A2. 488nM 3.0mW, 633nM 0.20mW, 403nM 1.5mW

CompuCyte

www.compucyte.com

CompuCyte Corporation
12 Emily Street, Cambridge, MA 02139 USA
In the U.S. and Canada call 800-840-1303, (617) 492-1300 FAX (617) 577-4501
Email: salesinfo@compucyte.com

For Research Use Only. Not for use in diagnostic procedures.

191-0011-001 Rev. A

iCyte™
Automated Imaging Cytometer

Automated image cytometry for:

- DNA AND THE CELL CYCLE
- CONSTITUENT TRANSLOCATIONS
- LIVE CELL ANALYSIS
- CELL DEATH AND APOPTOSIS
- CFP/YFP FRET
- TISSUE

...and more

Laser Scanning Cytometry in an inverted format

The iCyte™ Imaging Cytometer has the flexibility and automation you need to investigate the most complex cellular functions, including precise quantification of DNA and cell cycle information, and localization of multiple cell constituents.

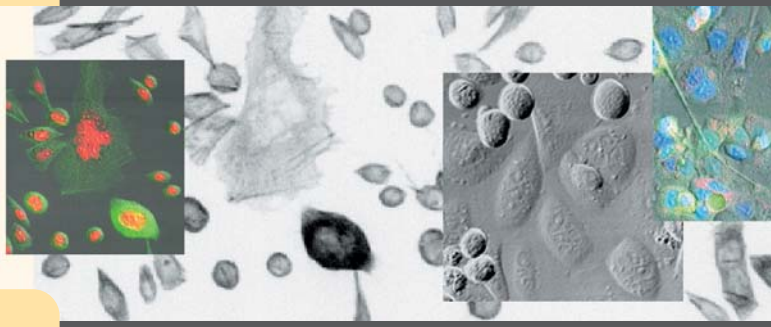
CompuCyte's innovative laser scanning cytometers give you all the benefits of stoichiometry, morphometry, and sub-cellular event measurement, optimized for analysis on a variety of specimen carriers.

Optional robotic specimen handling for microtiter plates or multiple-slide holders.

Obtain images

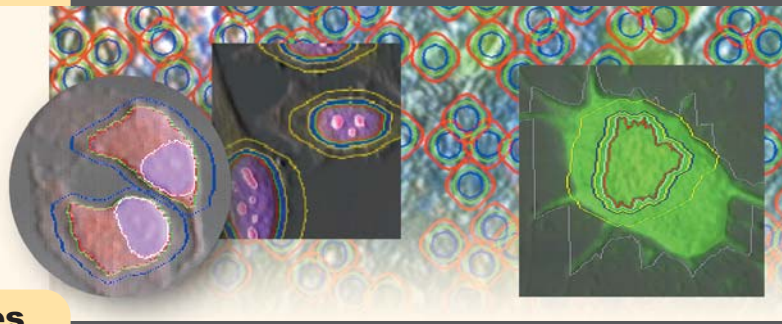
Generate images with patented brightfield laser scatter showing morphological effects, combined with multicolor fluorescence from additional markers.

Variable resolution scanning allows faster acquisition without compromising instrument sensitivity.



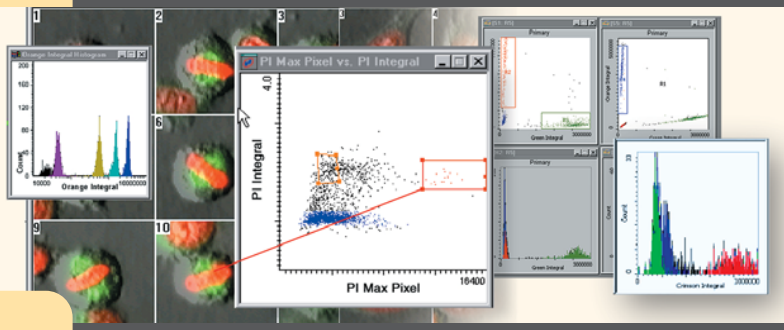
Segment events

Apply a variety of image processing algorithms to automatically segment and quantify cellular and subcellular events.



Correlate measured features

Explore the complex relationships between morphometric and fluorescence measurements on thousands of cells per specimen. Discriminate subpopulations based on correlated data.



Analyze results

Automate the analysis of experimental data with CompuCyte's iBrowser™ software or use open-architecture data formats.