



Rapid and Accurate Cell Imaging and Analysis

CELL LAB IC 100

IMAGE CYTOMETER

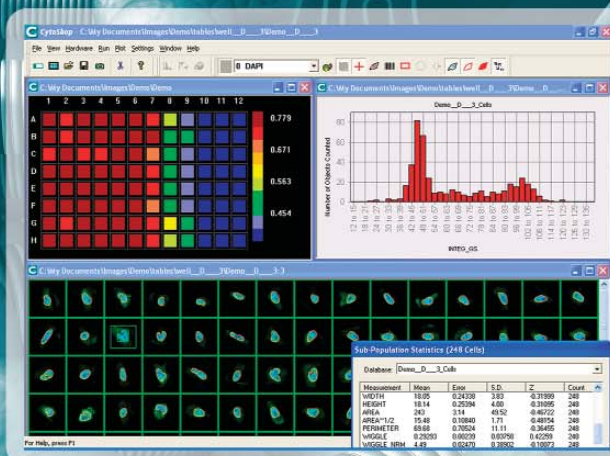
The Cell Lab IC 100 Image Cytometer delivers an unmatched combination of speed, accuracy, and precision to quantitative cell-based imaging and analysis. Backed by several proprietary and patented technologies, the IC 100 provides dramatic improvements to automated imaging, with incredible sub-cellular resolution.

FASTER DISCOVERY THROUGH SUPERIOR MEASUREMENTS

The Cell Lab IC 100 delivers efficient science through unique capabilities in cell measurement. Improvements in patented high-resolution imaging hardware and software enables inspection of a wide array of both trusted and new measurements from intact cells and tissues. Beckman Coulter leverages 15 years of high throughput imaging experience to provide access to the right solution for quality science.

APPLICATIONS

- *DNA Content*
 - *Cell Cycle, Cell Growth & Mitotic Index*
- *Protein Expression*
- *Migration/Invasion*
- *Nuclear Translocation*
- *Pit/Vesicle Formation*
- *Foci Formation*
- *Toxicology*
 - *Apoptosis, Necrosis, Cell Loss, Endosomal Mass, DNA Strand Breakage*
- *Transient Transfection Analysis*
- *Transcription and Chromatin Unfolding*
- *Multiparameter Correlation*
- *Target Identification siRNA, cDNA*
- *And much more*



CELLLAB IC 100 SPECIFICATIONS

Format	Well plate flexibility from 1 to 1536 well format Microscope slides Windows* 2000 PC Workstation
Throughput	as many as 10,000 images per hour & 0.3 seconds/image autofocus
Fluorescence Imaging	Feedback stabilized broad spectrum mercury arc lamp light source Flexible fluorophore imaging capability from UV (350 nm) to far red (750 nm)
Image Processing	Easy access to standard and custom assays High fidelity detail and broad set of measurements Plug-in architecture enables powerful custom application development
Optics	Flexible magnification options: 2 – 40x magnification; up to 0.95 N.A. Up to 0.3 micron resolution Autofocus in fluorescence based on image content CCD camera: 10 bit per pixel; 9.9µm pixel size; 640 × 480 pixel frame size; 60 frames per second Scientific grade cooled CCD: 12 bit per pixel; 6.45 µm pixel size; 1024 × 1344 pixel frame size
Off Line Analysis	Analysis can be done on standard windows-based workstations throughout your organization CytoShop software can be used to process images taken from other cell imaging platforms
Automation	10 position computer controlled excitation and emission filter wheels Motorized stage with 0.2µm resolution and accurate to 1µm Multiplate automation options available
Data Handling	Enterprise wide data integration through standard formats High performance Windows 2000 workstation with dual Xeon Pentium PC; 2.8+ GHz CPU and 170+ GB SCSI hard drive CytoShop Software Suite controls all aspects of hardware control, image processing, and user supported application development

PART NO.	DESCRIPTION
A16494	Cell Lab IC 100 Image Cytometer
A16495	CytoShop Software Suite

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