

CompuCyte Product Comparison Chart

Although the LSC Laser Scanning Cytometer, iCyte Imaging Cytometer, iCys Research Imaging Cytometer and iColor™ Fluoro-chromatic Imaging Cytometer share much in common, there are also many significant differences.

Features	iColor™	iCyte®	iCys®	LSC®
Up to 3 different laser excitation wavelengths	440, 532, 633	405, 488, 633	405, 488, 633	405, 488, 633
Up to 4 different fluorescence emission (signal) channels	√	√	√	√
Forward Scatter / Absorption channels channel	3	2	1, (2 optional)	√
Motorized Scatter blocker adjustment for fine-tuning and saving the level of shaded relief in scatter imagery	√	√	√	—
Confocal Imaging Option	√ optional	√ optional	√ optional	—
“Light loss” (absorption) signal (using the Scatter channels) for improved contouring and chromatic dye quantification	√	√	√	—
Brightfield illumination	√ optional	√ optional	√	√
Epi Fluorescence illumination	√ optional	√ optional	√ optional	√ optional
Oculars and optional CCD camera for microscope visualization with Brightfield or Epi-fluorescence illumination	√ optional	√ optional	√	√
Ability to scan a variety of specimen carriers including: <ul style="list-style-type: none"> • 6, 12, 24, 48, 96, and 384-well microtiter plates • Petri dishes • Chamber slides • “Custom carriers” 	√	√	√	—
Save and virtually scan “raw” data files so hardware-related analysis parameters may be modified for a virtual re-scan	√	√	√	—
Automatically save a variety of specific data for later viewing and reporting in the optional iBrowser® Data Integration Software	√	√	√	—
File merge capability to merge the <i>event file</i> data from two different scans	—	—	—	√
File merge capability to merge <i>raw image</i> file data.	√	√	√	—
Channel Adder to sum together the signal of two channels	—	—	—	√
Virtual Channel capability to define a variety of relationships between channels	√	√	√	—

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Features	iColor™	iCyte®	iCys®	LSC®
Compensation of <i>event data</i>	—	—	—	√
Compensation of the <i>image data</i> prior to event contouring	√	√	√	—
Autofocus capability	√	√	√	—
Robot for large scale walk-away analysis	√ optional	√ optional	√ optional	—
Phantom contours for stereological analysis of difficult to contour specimens	√	√	√	√
Run Statistics – Aggregate statistics on a per well basis (microplates) or per scan area basis (other carriers)	√	√	√	—
Relocation and rescan - relocate and rescan an event from a graphical data display	√	√	√	√
Relocate events and view with the microscope	√ optional	—	√	√
Virtual relocation - relocate the scanned image of an event from a graphical data display	√	√	√	—
Gated region highlighting in the scan field images.	√	√	√	—
Profiling tool for close examination of the expression along an arbitrary axis within a scan field or well image	√	√	√	—
Optional iNovator Application Development Toolkit <ul style="list-style-type: none"> • Build customized analysis protocols from modular tools • Incorporate image analysis tools such as: <ul style="list-style-type: none"> ▪ Erode, Open, Dilate, and Close ▪ Watershed Segmentation ▪ Digital Image Filtering • Build protocols for automated two pass scans (mosaic scan followed by high resolution scan) 	√ optional	√ optional	√ optional	—