

Resource Summary Report

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ThorLabs: iCyte Automated Imaging Cytometer

RRID:SCR_020119

Type: Tool

Proper Citation

ThorLabs: iCyte Automated Imaging Cytometer (RRID:SCR_020119)

Resource Information

URL: https://www.thorlabs.com/newgrouppage9.cfm?objectgroup_id=7473

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Description: iCyte Automated Imaging Cytometer combines digital microscopy with image processing and the real time population data analysis of analytical cytometry to produce high levels of information content with minimal investigation time. The iCyte combines the advantages of flow and image cytometry into a single system that provides unparalleled flexibility and power for rapid measurements of biochemical constituents or evaluating cell morphologies. It comes packaged with our iGen software for data acquisition and analysis. The system houses four lasers that are available in five different wavelengths (see Specs tab for more details) for laser-spot scanning illumination. The detection system, which combines PMTs for fluorescence detection and photodiodes for absorbance and scatter detection, offers excellent quantitative cytometric performance and imaging capabilities. iCyte provides fully automated operation for analysis of cellular and tissue samples that have been stained with fluorescent or chromatic dyes. Fluorescent excitation, laser light absorbance by chromatic dyes, and scatter signals may all be acquired simultaneously. This quantitative image analysis system enables both walk-away high-throughput applications (e.g., cell cycle screens on a 96-well plate in under ten minutes) and high-content analysis (where scanning and analysis can take longer depending on the level of multiplexing required, desired resolution and size of the scan area). It automatically segments and quantifies cellular and subcellular events. The automated analysis allows for the study of morphometric and fluorescent measurement correlations on thousands of cells per specimen. The iBrowser software automates the analysis of the measurement for quick and easy to understand analysis.

Resource Type: instrument resource

Keywords: iCyte, Cytometer, Instrument Equipment, USEDit

Availability: Commercially available

Resource Name: ThorLabs: iCyte Automated Imaging Cytometer

Resource ID: SCR_020119

Alternate IDs: Model_Number_iCyt

Record Creation Time: 20220129T080348+0000

Record Last Update: 20260801T190639+0000

Ratings and Alerts

No rating or validation information has been found for ThorLabs: iCyt Automated Imaging Cytometer.

No alerts have been found for ThorLabs: iCyt Automated Imaging Cytometer.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.