

Microcyte Technical Specifications

As of January 19, 2005

Light source	5 mW diodelaser.
Light scatter detector	Avalanche photo diode, wavelength 650-900 nm.
Light scatter sensitivity	0.4 – 15 μ m, measured with mono disperse polymer particles.
Light scatter resolution	CV 5%.
Fluorescence detector	Avalanche photo diode, wavelength 650-900 nm.
Fluorescence sensitivity	1000-100 000 molecules equivalents of Cy-5.
Fluorescence resolution	CV 5%.
Suitable dyes	TOTO-3, TO-PRO-3, APC, Cy-5, CNFDA, NFDA, SYTO 60-63.
Flow cell	Closed flow channel, 0.25 x 0.25 mm.
Sample	100 μ l – 1 ml in micro centrifuge tubes.
Concentration range	1 x 10 ² – 1 x 10 ⁷ particles per ml.
Detection limit	10 particles per ml.
Analyzing volume	1, 10 or 100 μ l (corresponding to analyzing time of 2, 20 or 200 seconds, respectively).
Settings	Light scatter/fluorescence, log/linear amplification, threshold gating .
Power supply	12-18 VDC, 2 A, from battery pack, mains adapter (100-240 VAC 50/60 Hz) or car battery (12V).
Battery pack	Internal 2 V, 2.5 Ah, rechargeable NiCd battery for 2-3 hours use.
Connections	<ul style="list-style-type: none"> • One 2.5 mm jack for DC supply. • Light scatter signal outlet, BNC plug (female). • Fluorescence signal outlet, BNC plug (female). • RS232C, 9 pin D-type (male).
Dimensions	430x160x330 mm. Weight 12 kg.

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Software	Optional software for instrument control and data registrations. Minimum requirements: <ul style="list-style-type: none">• MicrosoftWindows NT• Windows95 or later.• Minimum 500 Mhz.• Serial port for connection to MICROCYTE@. -Color monitor, minimum 256 colors,• 800x600 resolution.• Minimum 256 MB RAM.
Trademarks	MICROCYTE is a registered trade mark of Optoflow AS. TO-PRO-3, TOTO-3 and SYTO 60-63 are trade marks of Molecular Probes, Inc. Cy-5 is a registered trade mark of Nycomed Amersham, Ltd.

