

Flow Cytometer

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Flow Cytometer LD-LFCM-A10 is designed for accurate and efficient analysis of cells and particles through fluorescence and light-scattering measurements. It combines automated sample handling, advanced fluorescence detection, and user-friendly software to support research and clinical diagnostic workflows.

Features:

- One-button operation simplifies routine testing
- Automatic sampling with a 32-tube rotary loading module
- Supports continuous testing of up to 32 tests per 0.5 hour
- Dual-threshold acquisition improves cell population analysis
- FSC and SSC analysis enables separation of red blood cells and platelets and classification of white blood cells into three groups
- Automatic fluorescence compensation with online, offline, and visualized options
- High-resolution detection with full peak width CV below 2%
- Automatic compensation and imported analysis templates support consistent workflows
- English software interface with graphical analysis tools
- Built-in automatic mixing function for sample preparation
- Supports manual intake and rotary wheel auto-sampling
- Includes instrument control, item control, and report generation functions

Applications:

This is suitable for cell analysis, immune-phenotyping, fluorescence-based research, clinical laboratory testing, and biomedical studies.

Specifications:

Model no.	LD-LFCM-A10
Laser	488 nm solid-state laser, 60 mW
Weight	35 kg
Detector	FSC, SSC, FL1-FL5
Carryover	≤0.5%
Threshold	Dual threshold with minimum cell fraction
Dimensions	500 × 605 × 305 mm
Test Speed	≥46,000 cells/s
Instrument CV	FSC and all FL channels CV <2%
Item Template	Supports item templates, acquisition conditions, and one-click fluorescence compensation
Liquid Storage	Sheath bottle, waste bottle, 2 L shutdown liquid bottle, and 0.5 L cleaning liquid bottle

FSC Sensitivity	≤1 μm
PC Configuration	Dell PC with Intel Core i5, 8 GB DDR4, 1 TB hard disk, and 27-inch monitor
Measurement Range	Supports up to 10 ⁷
Test Particle Size	0.2-50 μm
Fluorescence Channels	FL1: 525/50 (FITC); FL2: 585/40 (PE); FL3: 630/30 (PE-Texas Red/EC/PI); FL4: 697/60 (PerCP/PE-Cy5/PE-Cy5.5); FL5: 780/60 (PE-Cy7)
Minimum Sample Volume	90 μL
Auto-Sampling Capacity	32 tests per wheel
Fluorescence Linearity	≥0.99
Fluorescence Sensitivity	FITC <50 MESF; PE <30 MESF
Fluorescence Compensation	Automatic online compensation, offline compensation, and visualized compensation