



Sysmex CyFlow[®] Cube Series

*Reliable, Compact and Cost-effective
Flow Cytometers*



For Research Use Only. Not for use
in diagnostic or therapeutic procedures.

Sysmex CyFlow® Cube Series



Compact, Economic Flow Cytometers with Exceptional Performance

Flow cytometry (FCM) is no longer limited to high-end cell biology laboratories or core research facilities. When performing basic research and/or industrial monitoring, you need access to easy and cost-effective FCM technology that will help you advance your research.

Standard applications and beyond are now within your reach, such as:

- Cell counting
- Viability testing
- Ability to determine apoptosis
- Fluorescent protein expression
- Immunophenotyping

The CyFlow® Cube series, CyFlow Cube 6 and the CyFlow Cube 8 instruments are fully integrated, compact, robust FCM solutions that will meet your daily research laboratory needs. These innovative, stand-alone flow cytometers offer all you need to precisely acquire cells or particles from samples in a powerful single device.

A network-ready computer, a foldable LCD monitor, and state of the art software make the CyFlow series the complete research solution. FCM technology integrated in an award-winning product design.

Economic viability is crucial to your research and the advancement of science. Why sacrifice quality due to budget constraints? The CyFlow Cube series provides the customizable high level of technology that you need at a low operating cost.

The Choice is Yours



Sysmex CyFlow Cube 6

The CyFlow Cube 6 is a cost-effective and compact flow cytometer.

- Choose from three basic configurations with the most commonly used lasers, blue 488 nm and red 640 nm, and with up to six optical parameters
- Automating your research is possible with an optional autoloader



Sysmex CyFlow Cube 8 (shown with Robby Autoloader)

The CyFlow Cube 8 is a flexible and modular system that can be customized to meet your needs.

- Combine up to three lasers and a UV LED with up to eight optical parameters
- You can expand your CyFlow™ Cube 8 with an auto loading station and integrated piezo-electric cell sorter module

The New Sysmex CyFlow Cube Max Series

The CyFlow Cube 6 Max and the CyFlow Cube 8 Max include the Blue 488 nm and the new, powerful Red 640 nm lasers. They are also enhanced with upgraded optical filters. The CyFlow Cube Max Series cytometers are also fully loaded with the upgraded CyFlow software. *Easy-to-use with powerful results!*

Most Requested Models

The modular architecture of the CyFlow Cube instruments offers you a variable choice of configurations to match your applications.

Number of Lasers	Laser Configuration (nm)*				Detection Channels	Available For
	Blue	Red	Violet	UV/LED		
1	488				6	Cube 6, Cube 8
2	488	640			6, 8	Cube 6 Max, Cube 8 Max
3	488	638	405		8	Cube 8
4	488	638	405	UV/LED	8	Cube 8

* Laser options available but not listed include 532 nm, 561 nm, 594 nm. See Technical Specifications for further detail.

Take Your Research From Basic Application to an Optimized Solution

Sysmex CyFlow Robby Autoloading Stations

- The CyFlow Robby 6 and Robby 8 autoloaders can be directly connected to the Cube 6 and Cube 8 instruments
- Controlled by the CyFlow acquisition and operating software, the system allows you to quickly load your flow cytometer – automatically and accurately
- Both stations can read standard 2 x 96 well plates and up to 120 tubes from a single load. The sample-to-sample cleaning procedure is flexible ensuring minimal carry-over

Sysmex CyFlow Cube Sorter Module




























- The CyFlow Cube 8 offers an optional cell-sorter
- The Cube Sorter combines a flow chamber with a piezo element, including electric activation
- Sort cells or particles without destruction to ensure high yield and purity
- As a closed system, the process is smooth with reduced mechanical stress
- Avoid biohazardous situations for your cell culture through the sorter's closed compact design that can easily be placed under a hood

Quality through Experience

Sysmex is the global leader in hematology and a front runner in hemostasis and urinalysis in vitro diagnostics. We have been counting and identifying cells for over 50 years to shape the advancement of healthcare.



Technical Specifications

Lasers/LEDs	Detectors	Exemplary dyes	Available for
 BLUE LASER 488 nm (50 mW fixed/ adjustable to 200 mW for Cube 8)	 Green  Orange  Orange Red  Red I  Red II  Far Red	FITC / GFP/Alexa Fluor® 488 PE / YFP PE-Texas Red® / PI / PE-DL-594 PE-Cy5 / PerCP PE-Cy5.5 / PerCP-Cy™ 5.5 PE-Cy7	Cube 6, Cube 8
 RED LASER 640 nm (40 mW)/638 nm (25mW)	 Red I  Far Red	APC / APC-Cy™ 5 APC-Cy™ 7 / Alexa 700	Cube 6, Cube 8
 VIOLET LASER 405 nm (100 mW)	 Blue  Green  Orange	Pacific Blue™ / CFP / Pacific Green Am Cyan / brilliant violet™ 605 Pacific Orange™ / brilliant violet™ 605	Cube 8
 UV LASER 375 nm (60 mW)  HIGH-POWER UV LED 365 nm	 Blue	DAPI / Hoechst 3342	Cube 8
 GREEN LASER 532 nm (30/100 mW)	 Orange  Red	mStrawberry / PE mCherry / PI / PE-Texas Red®	Cube 8
 YELLOW LASER 561 nm (100 mW)	 Orange  Red	PE / DS Red / PE-Texas Red® PE-Cy5 / PI / mCherry / mRuby	Cube 8
 ORANGE LASER 594 nm (50 mW)	 Orange Red  Red  Far Red	Texas Red® / Alexa Fluor® 594 mStrawberry APC / mCherry / mRFP / JRed mPlum	Cube 8

Instrument Models

- CyFlow® Cube 6, CyFlow Cube 8, CyFlow Cube 6 Max, CyFlow Cube 8 Max

Light Sources and Optics

- CyFlow Cube 6:
 - Optical parameters: max. 6 (4 colors + FSC + SSC)
 - Light sources: max. 2 lasers (488 nm and 640 nm)
- CyFlow Cube 8:
 - Optical parameters: max. 8 (6 colors + FSC + SSC)
 - Light sources: max. 3 lasers plus UV LED
- CyFlow Cube Sorter (Cube 8 with integrated sorter module):
 - Optical parameters: max. 5 (3 colors + FSC + SSC)
 - Light sources: max. 2 lasers
- Optical parameters with selected PMTs and exchangeable optical filters

Flow System

- Quartz flow cuvette for laminar sample transport and hydrodynamic focusing with sheath fluid
- Sample port with biosafety cleaning system
- True Volumetric Absolute Counting (TVAC) based on mechanical volume measurement
- Computer-controlled syringe pump speed, continuously adjustable from 0-20 µL/s

Electronics and Signal Processing

- Selectable linear or 4-decade logarithmic scale
- 16-bit analog-to-digital converters, selectable trigger parameter and individual threshold level settings

Software

- Operating system: Microsoft Windows™ 7 - 64 bit minimum
- CyFlow operating software for real-time data acquisition, analysis and display

Computer System

- Integrated Microsoft Windows™ PC with optional Microsoft Office® and network capability
- Integrated, foldable color LCD TFT display (15" Cube 6/ 19" Cube 8)
- USB and Ethernet ports
- Deskjet color printer with printing via network

Options

- CyFlow Robby 6 Autoloading Station for CyFlow Cube 6, CyFlow Robby 8 Autoloading Station for CyFlow Cube 8
- CyFlow Cube Sorter module for CyFlow Cube 8

Weight

- Cube 6: 18 kg
- Cube 8: 40 kg

Dimensions (WxHxD)

- Cube 6: 385 x 290 x 280 mm; with open display 528 mm height
- Cube 8: 500 x 370 x 470 mm; with open display 670 mm height

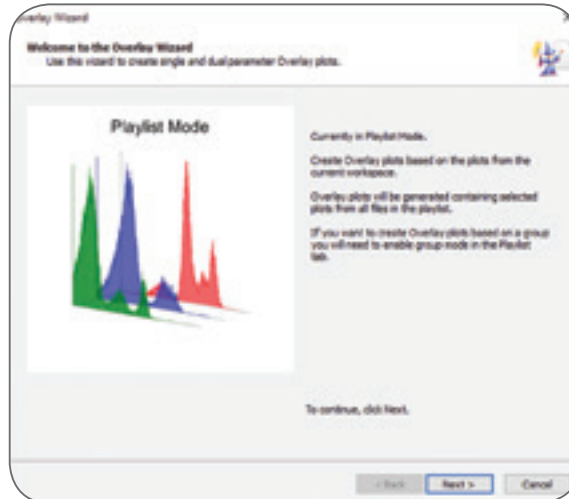
Design and specifications may be subject to change due to further product development. Changes are confirmed by their appearance on a newer document and verification according to its date of issue.

Operational Simplicity Enhances Your Workflow

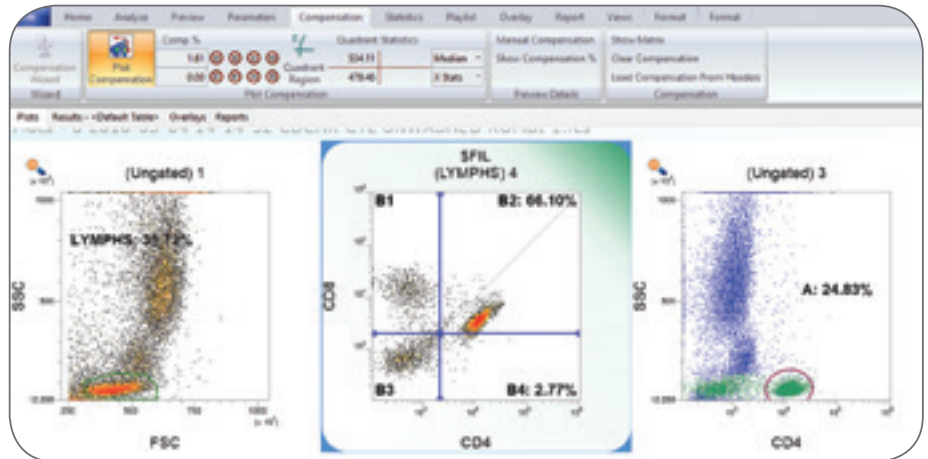
Sysmex CyFlow Software

The newly designed, intuitive CyFlow acquisition and analysis software offers measurement of millions of cells at your fingertips.

- Quickly choose your plots for analysis from all combinations shown in Preview Mode
- Easily compare plots with the Overlay Wizard, for single or dual parameters
- Share and customize your results within your research organization with the report generator
- Change your view with Zoom and V-Log scale, you are even able to gate in Zoom Mode
- Compensation is at your fingertips with the Compensation Wizard



An Overlay Wizard is available for single or dual parameter plots (dual parameter not shown).



Clarify results with the easy-to-use Compensation Wizard.

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