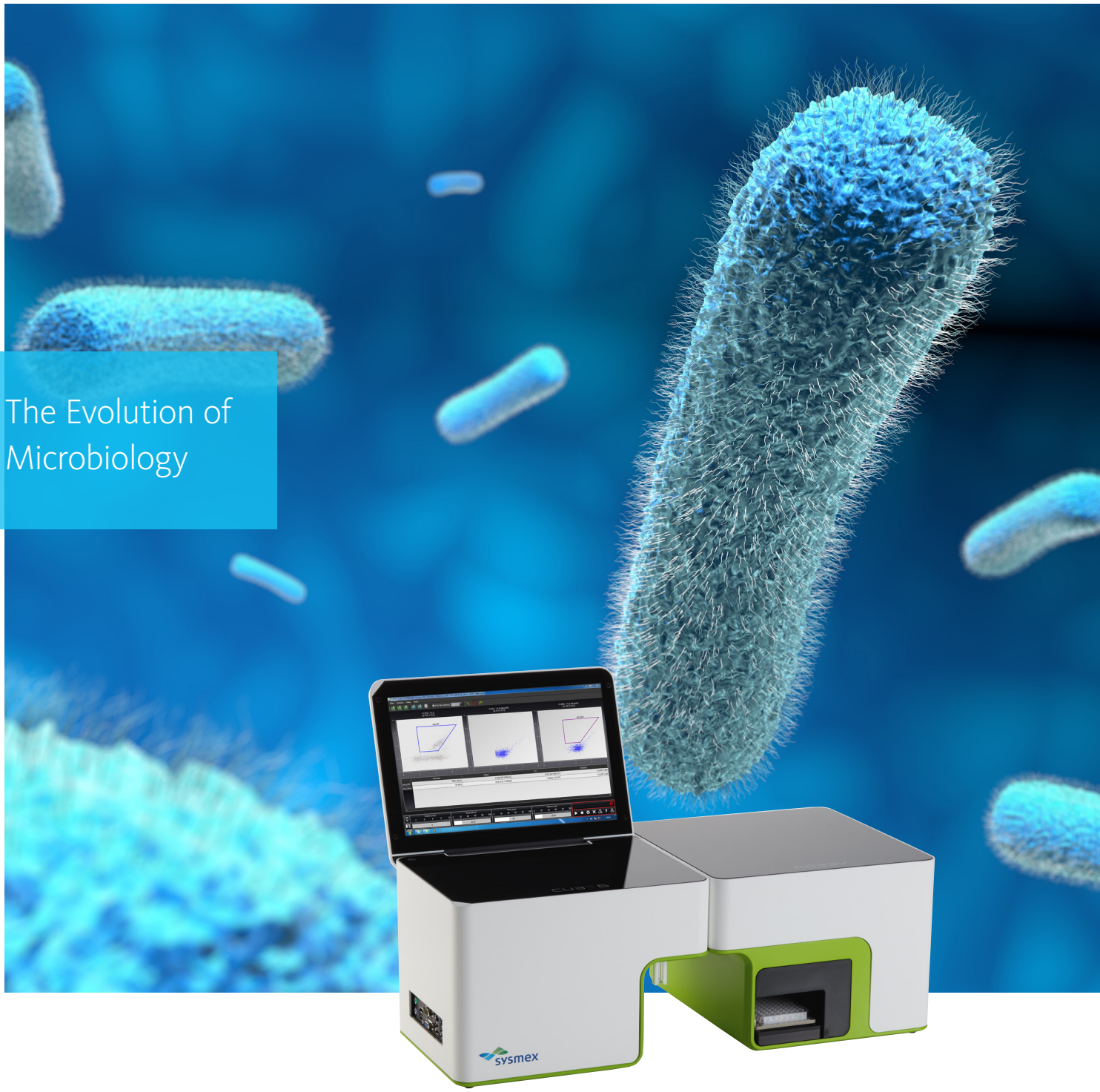
CyFlow™ Cube 6 V2m

The Evolution of Microbiology



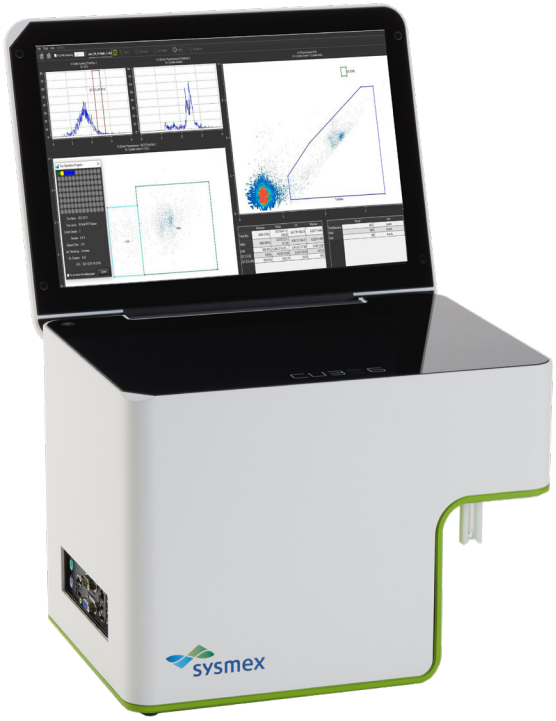
www.sysmex.com/flowcytometry

Increase Accuracy. Simplify Processes. Improve Efficiency.

For more than five decades, Sysmex has brought advancements in technology to the areas of diagnostics and research. The **CyFlow Cube 6 V2m** is a step into the future of microbiological analysis for researchers and industrial partners. Cube 6 V2m is specifically preconfigured for routine microbiological applications.

Sysmex provides a complete microbiology solution that gives labs and companies freedom from reliance on plates and reduces labor-intense and time-consuming tasks with a resources-conscious process.

The Cube 6 V2m is a compact benchtop flow cytometer for microbiological analyses, fermentation control, bead-based assays for research purposes, particle and cell concentration analysis. It features a standardized laser configuration system as an optimal solution for dedicated applications. Easy-to-use CyView™ software provides instrument control, data acquisition and real-time data analysis.



CyFlow Cube 6 V2m

Accuracy

- Reproducible results that are not dependent on user-defined testing conditions.
- High sensitivity of methodology due to all bacteria being counted.

Simplicity

- True Volumetric Absolute Counting (TVAC) displays particle concentrations for any subsets of particles without the need of reference beads.
- Operating the Cube 6 V2m requires neither microbiology expertise nor flow cytometry experience.

Efficiency

- Saves up to 99% valuable processing time* compared to plating.
- Replaces labor-intense, time-consuming tasks with a more efficient and resource-saving automated process.
- Microbial counts are obtained within minutes instead of days, and are stable and unaffected by room temperature
- Saves up to 55% of the costs† compared to plating, without the need of being an expert.
- An optional autoloader for the CyFlow Cube 6 V2m allows automated sample processing.

* Based on interval Sysmex Partec efficiency studies.

† Depending on reagent kit used and methodology.

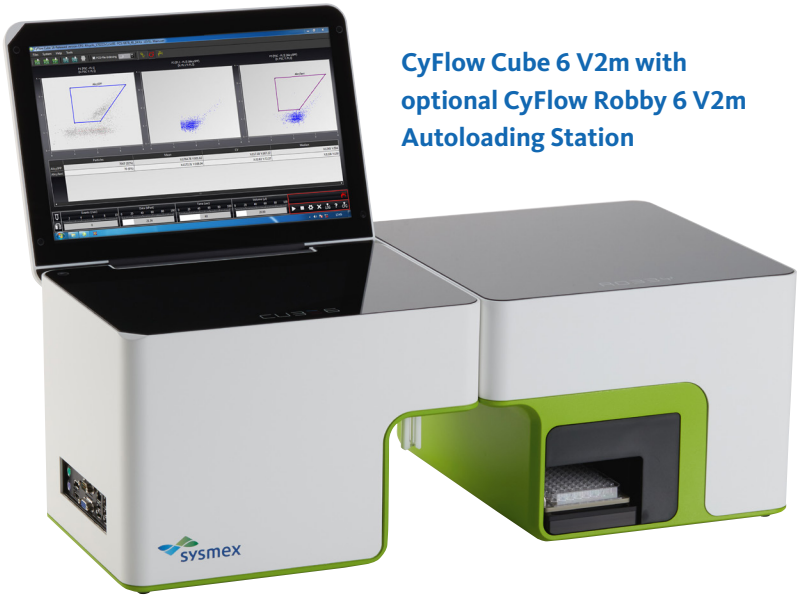
Cube 6 V2m Key Features

Cube 6 V2m Specifications

Parameters	5 optical parameters (3 colors + FSC & SSC)
Light source	Blue laser: 60mW at 488 nm
Microbial enumeration	• Absolute total bacterial count • Absolute viable bacterial count • Ratio of live-dead bacterial cells • Ratio of live-dead yeast cells
Counting methods	• Absolute counting by electrodes (TVAC) (in manual mode) • Syringe controlled volumetric counting (VCC) (in both manual and automated modes)
Sample points	• Sample speed: Adjustable from 0.1 to 19.9 ul/s • Minimum detectable particle size: 0.1 um • Maximum particle size in sample: 100um • Validated range: 1.0 X 10^3 - 2.0 X 1-^5 cells/ml
Data acquisition	• Sample flow rate: maximum 15,000 particles/s • Maximum events per sample: > 4 million events
QC functions	• Automated reporting • Pass/fail criteria • Lot traceability
Software	• CyView™ software for data acquisition and data analysis • User management • Guided prime, quality control and shut down procedures • FCS Express™ software for data analysis and reporting • Multilingual guidance for procedures and reports • Custom-programmable notifications and conditional alerts (e.g., pass-fail, valid-invalid, re- run) • Microsoft® Windows® 10 operating system

CyFlow™ Robby 6 V2m Autoloading Station for full automation

The CyFlow Robby 6 V2m Autoloading Station is the Sysmex solution for automation and high-throughput measurements. The Robby 6 V2m provides flexible choices of sample volume and speed for different types of microplates. These functions are complemented by a resuspension function with selectable mixing speed and automatic washing steps. The Robby 6 V2m Autoloading station, together with the Cube 6 V2m is the ideal platform for any industrial application and specifically tailored to the needs of our industrial partners.



CyFlow Cube 6 V2m with optional CyFlow Robby 6 V2m Autoloading Station

Robby 6 V2m Key Features

1
Automatic wash steps

2
Orbital plate mixing

3
Seamless easy to use acquisition software

4
Syringe pump driven sample transport

5
Start-up time < 5 mins

CyFlow Robby 6 V2m Specifications

Microplate	• 96-Well-Plate, V, U and flat- bottom • Plates meeting the following Standards: ANSI/SLAS 1-2004 through 4-2004
Analyzed volume	Flexible choice of sample volume up to 200 µL
Minimum volume requirements	50 µL
Speed	• Continuously adjustable from 0.2 µL/sec to 10 µL/sec • < 80 min for 96-Well-Plate (50 µL sample volume, 3 µL/sec)
Cross contamination	• Automatic wash steps between each sample • Automatic cleaning at end of each run
Carry-over	• < 0.75 % (without sample-to- sample cleaning), • < 0.2 % (with intensive sample- to-sample cleaning)
Recommended containers	• 5 L sheath container • 5 L waste glass bottle
Software	CyView™ Windows-based software
Device compatibility	CyFlow™ Cube 6 V2m

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