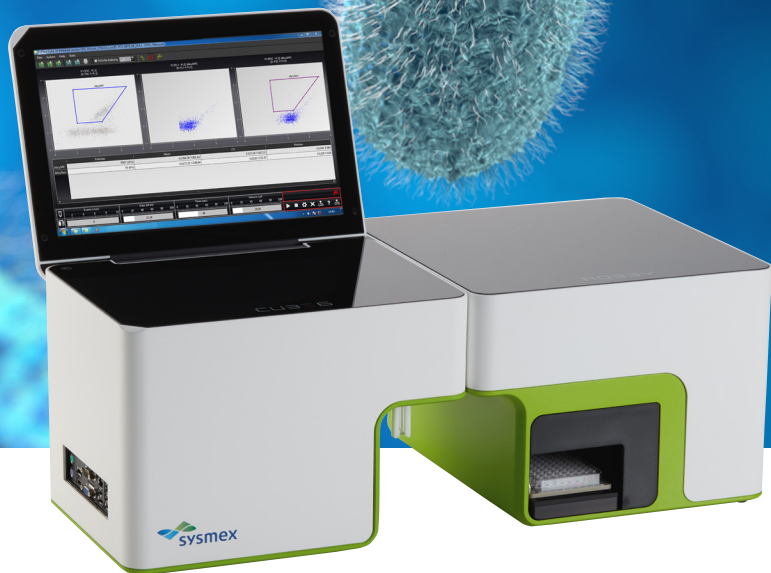


CyFlow™ Cube 6 V2m

The Evolution of
Microbiology

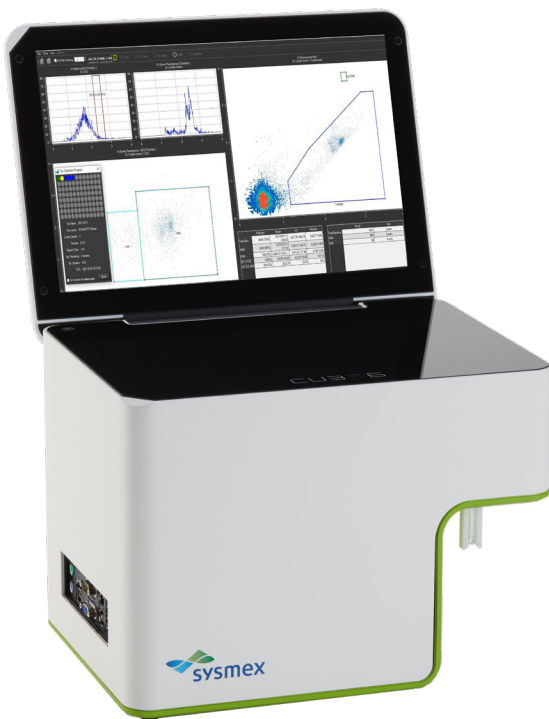


Increase Accuracy. Simplify Processes. Improve Efficiency.

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-intensive 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

* Based on interval Sysmex Partec efficiency studies.

† Depending on reagent kit used and methodology.

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-intensive, 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.

Cube 6 V2m Key Features

1

Automated report generation for quality control and analyses

2

User management and data logging

3

Custom programmable notifications and conditional alerts for quality control and analysis

4

Absolute counting by electrodes (TVAC) (in manual mode)

5

Syringe controlled volumetric counting (VCC) (in both manual and automated modes)

6

Optional autoloader for automated sample processing

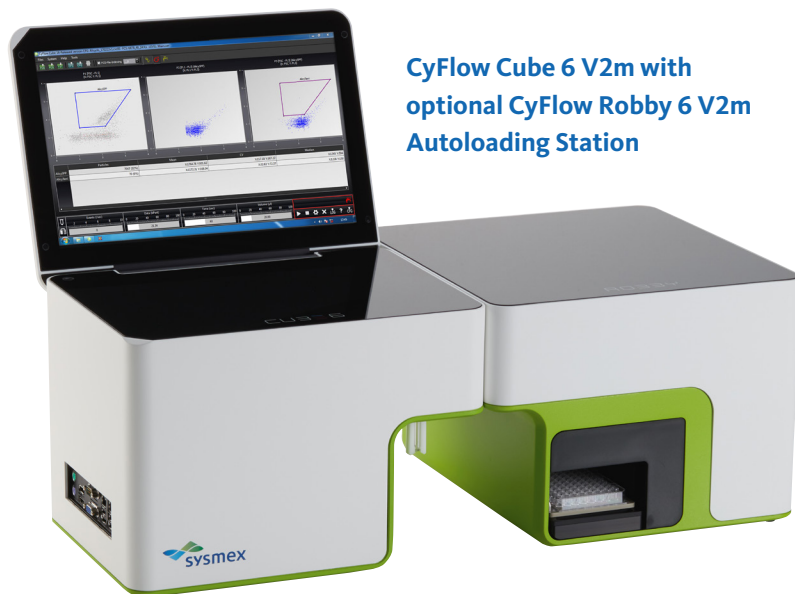


Cube 6 V2m Specifications

Parameters	5 optical parameters (3 colors + FSC & SSC)
Light source	Blue laser: 60mW at 488 nm
Microbial enumeration	<ul style="list-style-type: none">• Absolute total bacterial count• Absolute viable bacterial count• Ratio of live-dead bacterial cells• Ratio of live-dead yeast cells
Counting methods	<ul style="list-style-type: none">• Absolute counting by electrodes (TVAC) (in manual mode)• Syringe controlled volumetric counting (VCC) (in both manual and automated modes)
Sample points	<ul style="list-style-type: none">• 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: 1.0×10^3 - 2.0×10^5 cells/ml
Data acquisition	<ul style="list-style-type: none">• Sample flow rate: maximum 15,000 particles/s• Maximum events per sample: > 4 million events
QC functions	<ul style="list-style-type: none">• Automated reporting• Pass/fail criteria• Lot traceability
Software	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Automatic wash steps between each sample Automatic cleaning at end of each run
Carry-over	<ul style="list-style-type: none"> < 0.75 % (without sample-to- sample cleaning), < 0.2 % (with intensive sample- to-sample cleaning)
Recommended containers	<ul style="list-style-type: none"> 5 L sheath container 5 L waste glass bottle
Software	CyView™ Windows-based software
Device compatibility	CyFlow™ Cube 6 V2m

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