Product Fact Sheet

CyFlow™ Cube 6 V2m

Reliable, compact and cost-effective Flow Cytometer

Product picture

Product name

CyFlow™ Cube 6 V2m

Manufacturer information

The CyFlow™ Cube 6 V2m is manufactured by Sysmex Partec GmbH.

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Sysmex Partec is an ISO 9001:2015 and EN ISO 13485:2016 certified company.

Summary

The CyFlow™ Cube 6 V2m is a compact bench top flow cytometer for analysis of microorganisms, single cells and microscopic particles. The CyFlow™ Cube 6 V2m with its standardized laser configuration system is an optimal solution for dedicated applications. The easy-to-use CyView™ software provides instrument control, data acquisition and real-time data analysis. Furthermore, the CyFlow™ Cube 6 V2m offers True Volumetric Absolute Counting (TVAC) which allows displaying of particle concentrations for any subsets of particles without the need of reference beads. In addition, the software FCS Express is included for powerful analysis and standardized reporting capabilities.

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Productivity values

High-performance, bench-top design with integrated fluidics, built-in PC and a 15" TFT monitor. The CyFlow™ Cube 6 V2m is optimal for industrial flow cytometry applications and not for use in diagnostic procedures.

Main features of CyFlow™ Cube 6 V2m

- Configuration with 5 optical parameters (3 colours)
- 488 nm blue laser
- Particle size: 0.1 – 100 µm
- Fluorescence resolution: CV ≤ 2 %
- Maximum acquisition rate >15,000 particles/s
- Automatic absolute counting by electrodes (TVAC) and syringe controlled volumetric counting
- Start-up time < 5min
- Easy to use CyView™ acquisition software
- FCS Express analysis software

Specifications

Features	Description
Parameters	• 5 optical parameters (3 colours + FSC & SSC)
Light source	• Blue laser: 60mW at 488 nm
Optics	• Modular optical system with selected PMTs with integrated electronic preamplifier for FSC, SSC, FL1-FL3 • Standard objective mount with high numerical aperture
Electronics	• Single and multiple trigger on any parameter or combination of parameters • Individual threshold level settings • 16 bit analog-to-digital converters
Flow system	• Quartz flow cuvette for laminar sample transport and hydrodynamic focusing • Completely closed fluidic system • Sample port with cleaning system • True Volumetric Absolute Counting based on mechanical volume measurement • Computer controlled precision Syringe pump, speed continuously adjustable from 0.1 – 19.9 µl/s • Easily accessible sheath fluid and waste reservoirs with fluid level sensors
Computer	• Built-in Windows™ PC • Microsoft Windows™ 10 professional 64-bit operating system • Integrated 15" TFT LCD display • Dual screen setup (optional) • Keyboard, mouse • 4 USB ports • Ethernet connection
QC functions	• Control of instrument function (laser alignment)
Dimensions	• Standalone instrument: L 385 mm x W 280 mm x H 290 mm (H 528 mm with open display)
Weight	• 18 kg
Interface	• USB, LAN, video output
Operative temperature	• 15 - 30°C
Operative humidity	• 20-85 %, non-condensing
Noise	• < 80 dBA
Overvoltage category	• 2 / II
Nominal voltage	• 100 – 240 V AC
EMC class	• Class A
Degree of protection	• IP 20 (according to IEC 60529)

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Specifications

Features	Description
Software	• CyView™ software for data acquisition and real-time data analysis • Guided prime and shut down procedures • Easy experimental template set up • Flow cytometry standard file format for storage of original and evaluated data • Variable 1-parameter histograms and 2 parameter dot plots • Time parameter • Selectable linear scale or 4-decade logarithmic scale • Software-based lin/log transformation • Analysis pre-selectable on time, number of events or sample volume • Multi parameter online/offline crosstalk compensation • Multi parameter gating • Compensation function • User management • FCS Express software for data analysis and reporting

Article number

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