

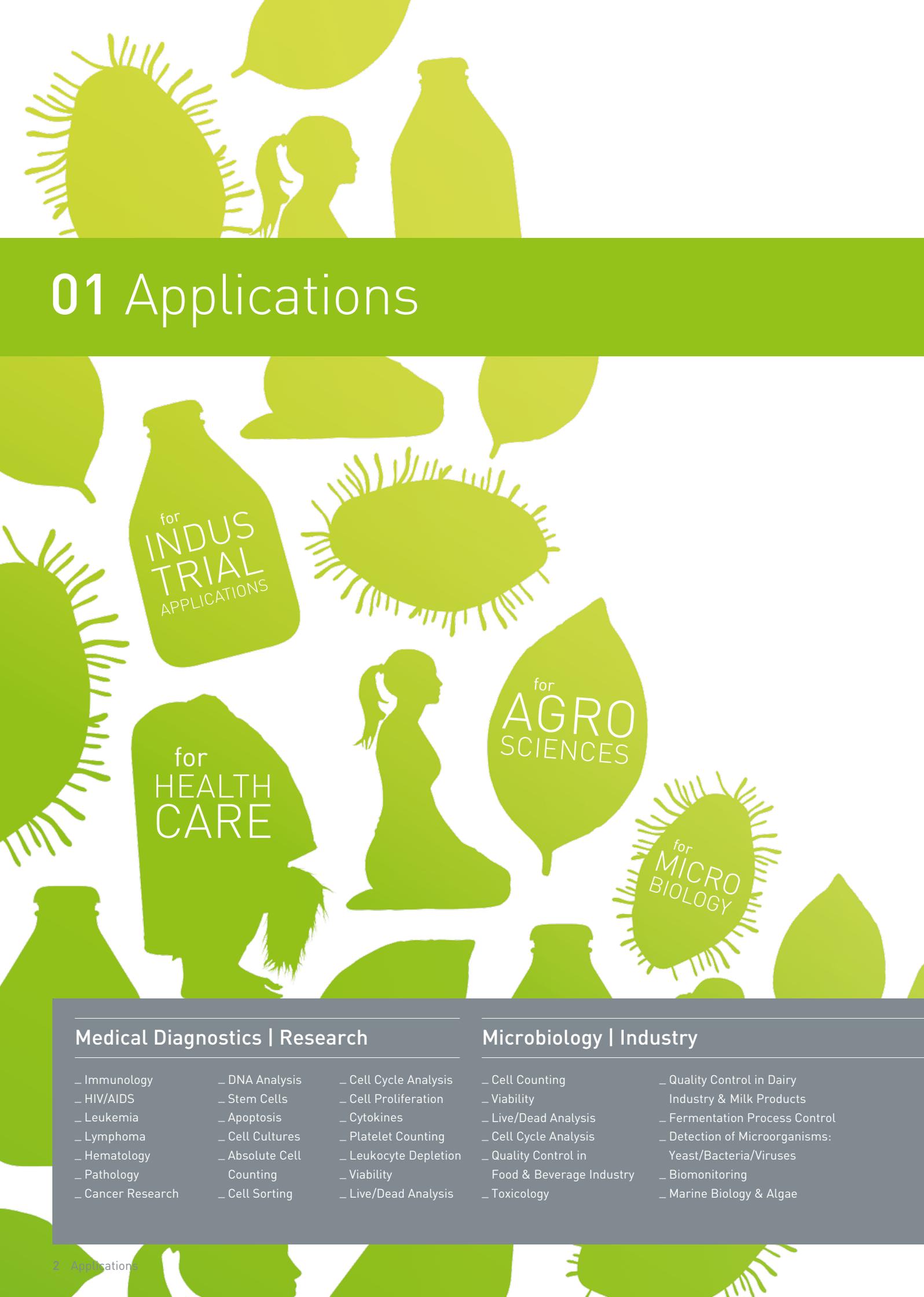
CyFlow[®] Cube 8

Immunology
Microbiology
Industrial Applications
Agrosciences | Aquaculture
Cell and Particle Sorting



reddot design award
winner 2012

High Performance Multilaser Flow Cytometry Analyser and Sorter



01 Applications

for
INDUS
TRIAL
APPLICATIONS

for
HEALTH
CARE

for
AGRO
SCIENCES

for
MICRO
BIOLOGY

Medical Diagnostics | Research

- _ Immunology
- _ HIV/AIDS
- _ Leukemia
- _ Lymphoma
- _ Hematology
- _ Pathology
- _ Cancer Research
- _ DNA Analysis
- _ Stem Cells
- _ Apoptosis
- _ Cell Cultures
- _ Absolute Cell Counting
- _ Cell Sorting
- _ Cell Cycle Analysis
- _ Cell Proliferation
- _ Cytokines
- _ Platelet Counting
- _ Leukocyte Depletion
- _ Viability
- _ Live/Dead Analysis

Microbiology | Industry

- _ Cell Counting
- _ Viability
- _ Live/Dead Analysis
- _ Cell Cycle Analysis
- _ Quality Control in Food & Beverage Industry
- _ Toxicology
- _ Quality Control in Dairy Industry & Milk Products
- _ Fermentation Process Control
- _ Detection of Microorganisms: Yeast/Bacteria/Viruses
- _ Biomonitoring
- _ Marine Biology & Algae

The CyFlow® Cube 8 has been designed by Partec as a high performance system which offers you the best and most reliable tool for routine and research work. Furthermore, the advanced flow cytometry technology of the CyFlow® Cube 8 is capable of a wide range of applications.

THE PERFECT SOLUTION FOR ALL YOUR CELL ANALYSIS APPLICATIONS: CYFLOW® CUBE 8



Agrosciences | Breeding | Aquaculture

- _ Bioreactor Process Optimisation
- _ Particle Counting
- _ Pharmaceutical Industry
- _ Quality Control in Cosmetics
- _ Research
- _ Detection of Ploidy Level
- _ Plant Genome Size
- _ DNA Analysis
- _ Aneuploids and Allopolyploids
- _ Detection of Apomixis and Reproduction Behaviour
- _ Detection of Hybrids
- _ Polysomy
- _ Polysomy and Plant Chimera Analysis
- _ Gender Determination
- _ Cell Type Identification in Natural Populations
- _ Sperm Cell Counting
- _ Sperm Cell Viability
- _ Sperm Cell Function



Unique Instrument Design



Built-in 19" TFT Screen



Integrated Sheath/Waste Container

02 Highlights



For in vitro diagnostic use.

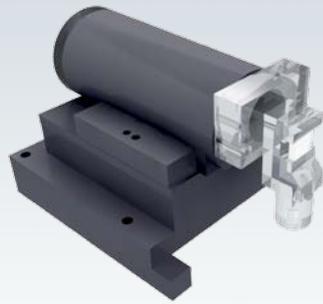


MADE IN GERMANY





Intuitive Powerful FCM Software



Optional CyFlow® Sorter Module



Optional CyFlow® Robby 8 Autoloading Station

UNIQUE FLOW CYTOMETRY DESIGN BY PARTEC.

Superior Performance. Most Cost-effective Solution.

The CyFlow® Cube 8 from Partec opens a new dimension in flow cytometry.

CyFlow® Cube 8



CyFlow® Cube Sorter



Optical Parameters (Colors)

8 (6 Colors + FSC + SSC)

5 (3 Colors + FSC + SSC)

Light Sources

4 max, including 3 lasers + High Power UV LED for highest resolution DNA Analysis

1 or 2 lasers

Options & Upgrades

CyFlow® Robby 8 Autoloading Station for tubes and well plates

CyFlow® Robby 8 Autoloading Station for tubes and well plates

HIGH-PERFORMANCE, BENCH-TOP DESIGN WITH FULLY-INTEGRATED FLUIDICS, BUILT-IN PC AND A 19" TFT MONITOR

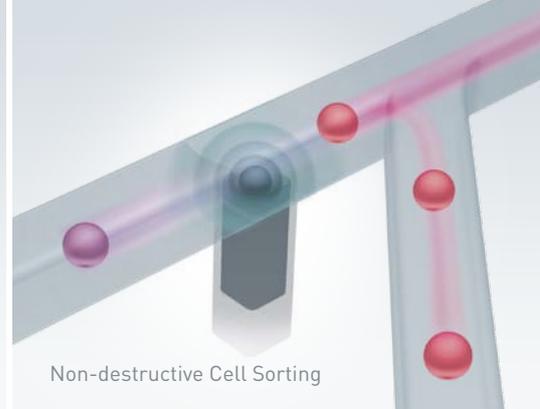
- _ choice of 488, 638, 407, 355, 375, 532, 561, 594, 785 nm lasers
- _ optional high power 365 nm UV LED for highest resolution DNA analysis with CV ≤ 1%
- _ superior fluorescence sensitivity: ≤ 100 MESF (FITC) | ≤ 50 MESF (PE)
- _ down to nanotechnology: superior small particle detection ≥ 50 nm
- _ flexible and modular CyFlow® Cube 8 system configurations
- _ optional CyFlow® Sorter for closed, non-destructive, non-hazardous cell and particle sorting
- _ optional CyFlow® Robby 8 Autoloading Station for well plates and tubes



Minimal Setup Time



Maximum Flexibility: 9 Wavelengths Available



Non-destructive Cell Sorting

03 Instrument Design

FULL FLEXIBILITY FOR YOUR APPLICATIONS.

The CyFlow® Cube 8 offers flow cytometrists the most cost-efficient way to be perfectly equipped for current and new applications.

Intuitive easy-to-use flexible flow cytometer for any laboratory

The CyFlow® Cube 8 impressively demonstrates how state-of-the-art flow cytometry technology reduces set-up time and maintenance to a minimum, achieves intuitive easy instrument operation and therefore offers the highest possible time and cost efficiency in your daily laboratory work.

Laboratories desire to grow continuously, as the variety of important applications is increasing. In order to cover the widest range of applications, the CyFlow® Cube 8 offers modular configurations in a most compact system architecture. This includes upgrade options for optical parameters and fluorescence channels, additional laser light sources selectable from a wide range of nine excitation wavelengths (355–785 nm), optional CyFlow® Sorter and CyFlow® Robby 8 Autoloading Station for well plates and sample tubes. Laboratories equipped with the CyFlow® Cube 8 therefore benefit from the highest system flexibility and do not suffer from the severe limitations of completely fixed instrument configurations and restricted laser wavelengths.

Truly stand-alone and fully integrated high performance instrument

With its small dimensions of only L 500 x W 470 x H 355 mm, the multilaser CyFlow® Cube 8 features built-in Windows™ PC, 19" TFT screen (additional 2nd screen support), software-controlled pressure regulators and integrated sheath/waste container. Additional space on or under your laboratory bench is no longer required. The CyFlow® Cube 8 is equipped with standard interfaces for USB, LAN, video output, etc.

The high performance and computing power of the CyFlow® Cube 8 allows real-time signal analysis, real-time signal processing and real-time display of each event generated by a cell or particle. This unique capability of an entirely real-time performing flow cytometer is a prerequisite for precise high speed analysis and accurate absolute counting. More than this, the CyFlow® Cube 8 offers the optimum in fluorescence sensitivity, DNA quantification, scatter resolution and small particle detection down to nanotechnology size (e.g. for virus or bacteria analysis).



Interchangeable Partec Optical Cubes



Autoloader for Tubes and Well Plates



Compact Stand-alone Design



CyFlow® Cube 8 with up to 8 optical parameters—6 colors



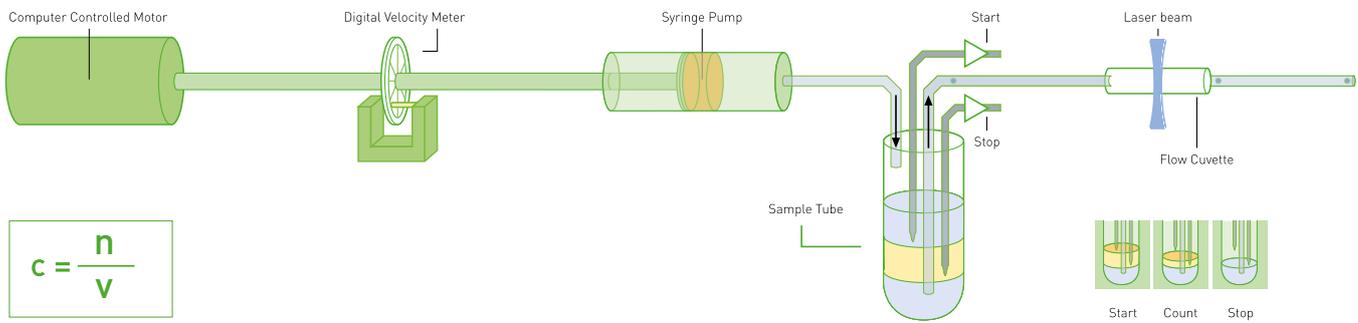
CyFlow® Cube Sorter with up to 5 optical parameters



Excitation flexibility: up to 4 light sources simultaneously (available wavelengths see table below)

CyFlow® Cube 8 — Selection of Available Light Sources

| Excitation (nm) | Detector | Exemplary Dyes | Exemplary Dyes | Exemplary Dyes | Exemplary Dyes | Exemplary Dyes | Exemplary Dyes | Exemplary Dyes | Exemplary Dyes |
|-----------------|------------------|----------------|-----------------|-------------------------------|-----------------|----------------|-------------------|----------------|----------------------------|
| Blue 488 | Green | FITC | GFP | Alexa Fluor 488 | Syto 9-24 | Oregon Green | JC-1 (monomers) | DiOC6(3) | H2-DCF-DA |
| | Orange | PE | YFP | Hydroethidine | | | | | |
| | Orange Red | PE-Texas Red | PI | ECD | EB | | JC-1 (aggregates) | | |
| | Red I | PE-Cy5 | PerCP | PE-Dy647 | Acridine Orange | 7-AAD | | | |
| | Red II | PE-Cy5.5 | PerCP-Cy5.5 | | | | | | |
| Far Red | PE-Cy7 | | | | | | | | |
| Red 638 | Red I | APC | APC-Cy5 | Syto 59-63 | Dy647 | T0-PR03 | Alexa Fluor 647 | Draq5 | Cy5 |
| | Red II | APC-Cy5.5 | Cy5.5 | | | | | | |
| | Far Red | APC-Cy7 | APC-H7 | Alexa Fluor 750 | Cy7 | | | | |
| Violet 407 | Blue | Pacific Blue | Alexa Fluor 405 | Monobromobimane | DAPI | Hoechst 33342 | | | |
| | Green | AmCyan | CFP | Qdot 525 | Lucifer Yellow | | | | |
| | Orange | Cascade Yellow | Pacific Orange | Qdot 585 | | | | | |
| UV LED 365 | UV Laser 355 375 | Blue | DAPI | Hoechst 33342 | Alexa Fluor 350 | Cascade Blue | BFP | AMCA | Indo-1 (Ca ²⁺) |
| | | Green | Qdot 525 | | | | | | |
| | | Orange | Qdot 585 | Indo-1 (no Ca ²⁺) | | | | | |
| Green 532 | Orange | mStrawberry | DsRed | DY590 | mOrange | | | | |
| | Red | mCherry | LDS 751 | | | | | | |
| Yellow 561 | Orange | PE | Dy590 | Philippin | Cy3 | mBanana | | | |
| | Red | PE-Cy5 | PI | LDS 751 | | | | | |
| Orange 594 | Orange Red | Texas Red | Alexa Fluor 594 | | | | | | |
| | Red | APC | mCherry | Cell Tracker Red | | | | | |
| | Far Red | APC-Cy7 | mPlum | mRaspberry | mKate | Katushka | HCRed | HCRed | |



$$c = \frac{n}{v}$$

05 TVAC (True Volumetric Absolute Counting)

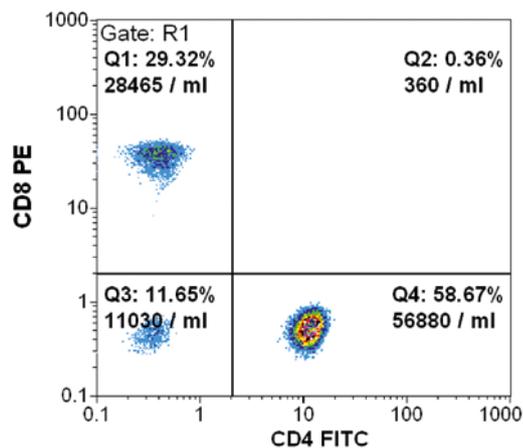
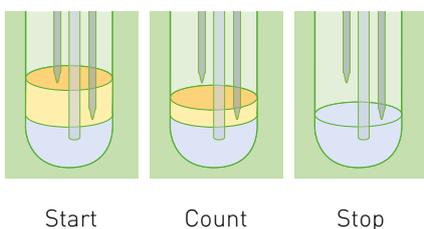
THE OPTIMUM IN PRECISION AND ACCURACY.

Partec True Volumetric Absolute Counting and the CyFlow® Cube 8 flow cuvette ensure that cells and particles are analysed and counted with the highest possible precision and accuracy.

The CyFlow® Cube 8 analyses concentrations of any particle or cell subpopulation using True Volumetric Absolute Counting (TVAC). This advanced technology is solely based on the fundamental definition of absolute counting i.e.: the particle concentration (c) is equal to the counted number (n) of cells in a given volume (v), $c = n/v$. The CyFlow® Cube 8 measures precisely the volume, directly by mechanical means, rather than indirectly with expensive and sometimes problematic beads, thus eliminating any errors related to varying bead concentrations or bead aggregations. The CyFlow® Cube 8 allows the analysis of a fixed volume as defined by the distance between two platinum electrodes. The desired volume can also be freely selected, based on digital sample speed control by software.

Highlights of TVAC

- _ absolute counts with CV ≤ 2%
- _ no expenses for calibration beads
- _ no errors related to calibration
- _ reduction in cost, time and preparation steps because neither reference beads nor hematology reference counts are required

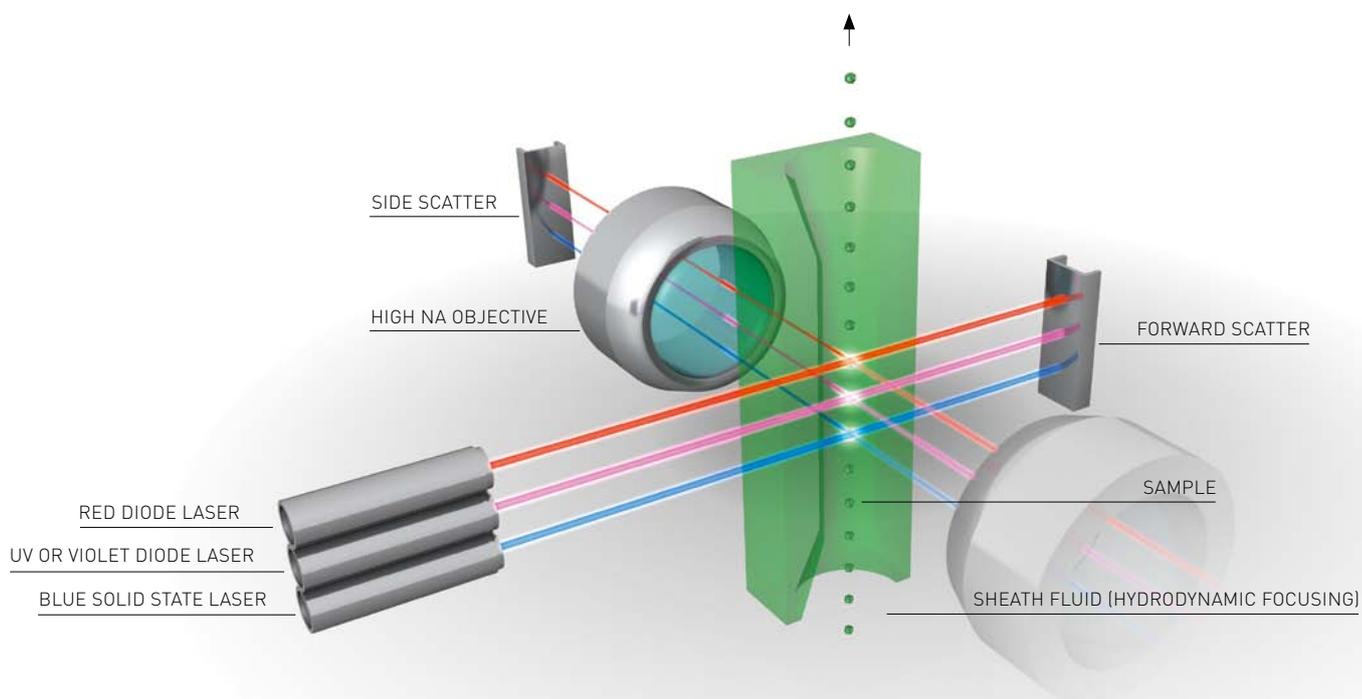




05 Partec Quartz Flow Cuvette

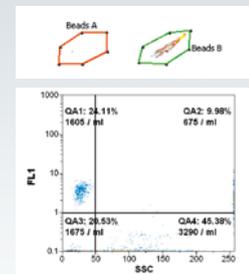
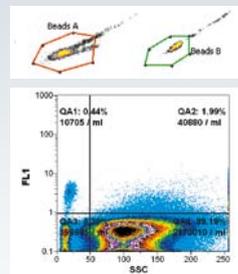
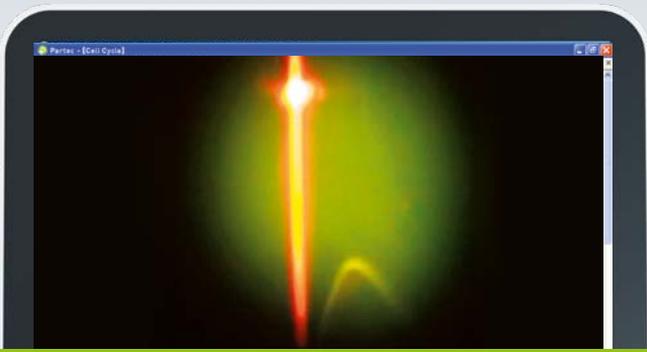
THE HEART OF THE FLOW CYTOMETER.

The CyFlow® Cube 8 quartz flow cuvette design is based on Partec's unique experience having introduced fluorescence-based flow cytometry in 1968.



The design of the CyFlow® Cube 8 quartz flow cuvette incorporates more than 40 years of Partec experience in handling fluids with nanoliter precision. This high-precision analysis is achieved by hydrodynamic focusing of the particles as they flow through the cuvette, one optimally — aligned particle at

a time as they pass the laser beam. Due to the optical and mechanical design of the Partec flow cuvette, superior results are guaranteed for all parameters, e.g. coefficients of variation (CVs) of about $\leq 2.5\%$ on all fluorescence channels.



Step 1: Select Population

Step 2: Click on the Sort Button

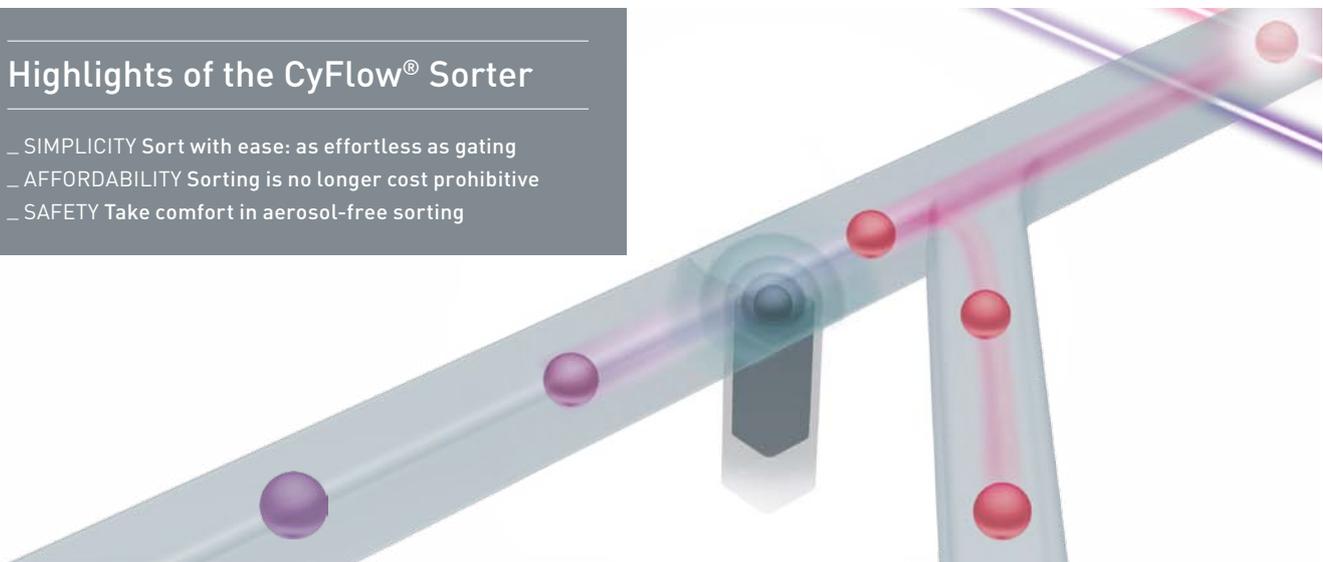
06 Cell Sorting

CYFLOW® SORTER: EASY-TO-USE FOR ANY LABORATORY.

The unique CyFlow® Sorter for closed, non-destructive and non-hazardous cell and particle sorting offers highest purity and optimal sorting stability.

Highlights of the CyFlow® Sorter

- _ SIMPLICITY Sort with ease: as effortless as gating
- _ AFFORDABILITY Sorting is no longer cost prohibitive
- _ SAFETY Take comfort in aerosol-free sorting



MORE HIGHLIGHTS ...

Safest for biohazardous sorting

- _ totally closed fluidic system
- _ no aerosols, no droplets
- _ no high voltage droplet charging

Unique design in a small footprint

- _ fluidic system built-in
- _ computer & monitor built-in
- _ fits easily into a biosafety hood

Most gentle

- _ ideal for sorting fragile cells
- _ low pressure
- _ minimal shear forces
- _ no jet-stream

Most affordable

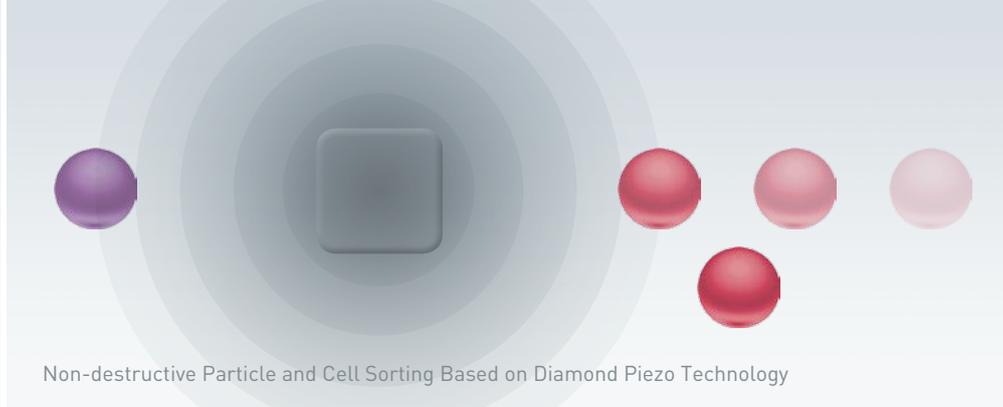
- _ robust design for low-maintenance
- _ superior price-to-performance ratio

Easiest to use

- _ fixed alignment
- _ no drop-delay to calculate
- _ no beads to count
- _ simply select a population and sort



Easy-to-implement: CyFlow® Sorter upgrade



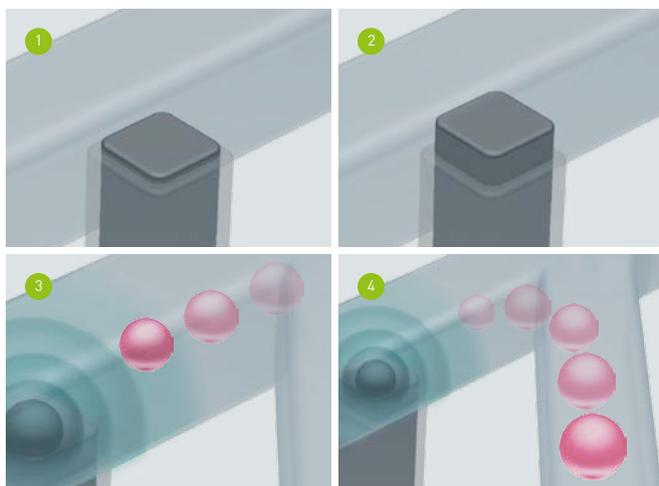
Non-destructive Particle and Cell Sorting Based on Diamond Piezo Technology

The Partec CyFlow® Sorter technology is the result of Partec's more than 40 years of experience in flow cytometry. In order to overcome the problems of droplet sorters such as prohibitive pricing, difficult operation, exposure to biohazardous aerosols, contamination of sorted samples, mechanical stress, Partec has developed this closed sorting technology. The CyFlow® Sorter is an optional add-on to the Partec CyFlow® Cube 8 and serves as an optimized module for simplified and precise cell and particle sorting.

The sorting process takes place very smoothly and without mechanical stress typical of droplet sorters. Thus, even fragile cells or large particles are sorted by the CyFlow® Sorter without any distortion and other forces acting on the cells during deflection. A special feature of the CyFlow® Sorter is the correct sorting of all the cells in a region. The high yield

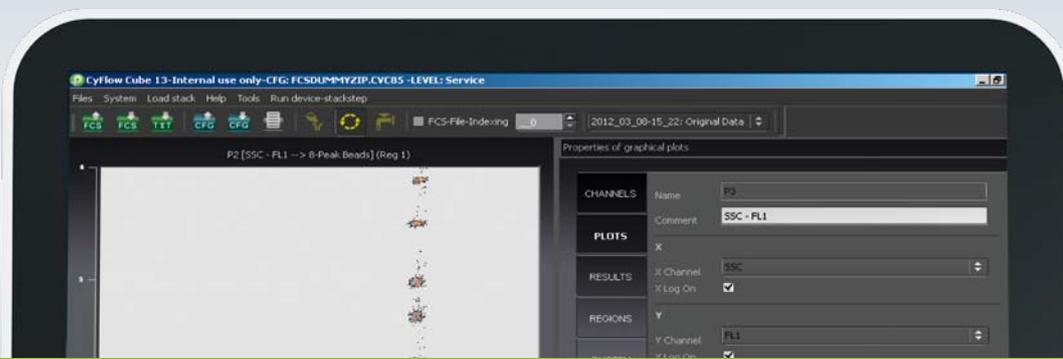
is a result of the practically zero dead-time data acquisition system. No event is lost because the entire Partec hardware and software acquisition works in real-time without any "interrupts" which often occur in other available sorting instruments. Therefore, no "wrong" cell can be sorted by mistake, thus directly achieving the highest sorting purity.

The Partec CyFlow® Sorter is extremely stable and produces no vibrations that might interfere with particle analysis, as can occur with droplet sorters, because the whole system is closed, non-elastic, and without air. The morphology and vitality of cells (e.g. fragile particles like plant protoplasts) are not damaged by sorting. Long sorting runs – e.g. for several hundred milliliters of sample volume – are possible. The sorting device can be sterilized safely. Any environmental contamination is completely avoided under normal conditions.



Sorting Technology | Sorting Cuvette Specifications | Sorting Control Unit

- _ Diamond piezo crystal for controlled particle deviation.
- _ Adjustable delay between point of analysis and deflection.
- _ Completely closed quartz flow cell with 200 µm or optionally larger sorting channels for particle sizes up to 60 microns diameter. Other sorting channel dimensions on request, e.g. for large particle sorting (Islets of Langerhans, etc.).



Easy-to-use: Get in Touch with the CyView™ Software

07 Software

CYVIEW™: POWERFUL BUT INTUITIVE SOFTWARE FOR CYFLOW® CUBE 8.

The easy-to-use CyView™ data acquisition and data analysis software is your perfect control tool for operating the CyFlow® Cube 8 with maximum efficiency.

The Windows™ CyView™ software integrates instrument control including acquisition, on- and offline data analysis, on- and offline compensation into a complete software package. Predefined and freely adaptable instrument settings and panels facilitate switching between different applications. CyView™ is dedicated for all applications in immunophenotyping, microbiology, cell cycle analysis, DNA quantification, ploidy analysis, etc. Data are stored in FCS flow cytometry standard file format for easy exchange with other analysis software. One of the unique features is the digital on- and offline color crosstalk compensation of the spectral overlap of fluorescence from simultaneously analysed dyes. The N-color software compensation algorithm allows a correction of the crosstalk between any parameters without the need of rerunning a sample.

CyView™ optimally supports the True Volumetric Absolute Counting feature of the CyFlow® Cube 8, displaying particle concentrations for any subsets of cells, even if defined by a gate at a later time after the acquisition.

CyView™ Software Specifications

- _ Windows™ based CyView™ software for routine and research applications
- _ multiple language support for CyView™ software menus
- _ editable CyView™ user environments
- _ flow cytometry standard file format (FCS 2.0, 3.0, 3.1) for storage of original and evaluated data
- _ 8 parameter real-time data acquisition, real-time data analysis, real-time data display
- _ 64 calculated parameters plus time parameter
- _ one and two parameter histograms and dotplots
- _ 64–4096 channels resolution for 1P histograms
- _ 64/64–4096/4096 channels for 2P dotplots
- _ linear | 3-decade logarithmic | 4-decade logarithmic scale (selectable)
- _ software-based lin/log transformation
- _ single and multiple trigger on any parameter or combination of parameters (AND/OR)
- _ analysis pre-selectable on time, number of events, sample volume
- _ multiparameter online crosstalk compensation
- _ multiparameter online color gating
- _ doublet discrimination
- _ DNA cell cycle and DNA peak analysis
- _ software-controlled True Volumetric Absolute Counting
- _ peak and cluster analysis and statistics
- _ real-time sort trigger generation
- _ data display templates, plots, channels, regions and calculated results editable via XML files
- _ all steps of complete analysis runs editable via XML files
- _ compensation and XML configurations can be stored separately or included in the FCS file
- _ connection to well plate/sample tube autoloader
- _ multitube panel system with automated acquisition
- _ automated data transfer to laboratory information systems (LIS)
- _ support of 3rd party flow cytometry software (on request)

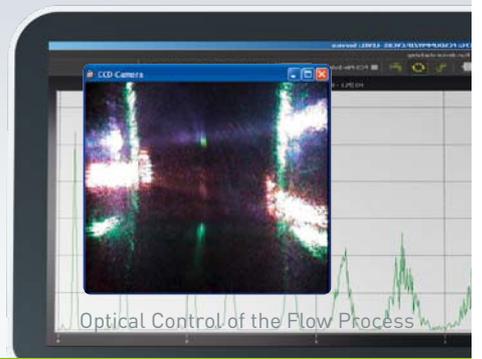
Several features are in preparation. Technical specifications are subject to change without notice.



CyView™ FCM Software

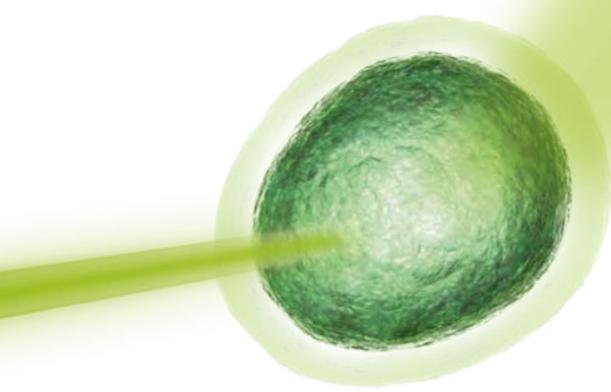


Second Screen Support | up to 2560 x 2048 pixel



Optical Control of the Flow Process





08 Specifications

CYFLOW® CUBE 8 SPECIFICATIONS.

Superior performance and state-of-the art technology at a glance.

General

- compact flow cytometer for automated sequential analysis of single cells and microscopic particles
- scatter particle size range: 50 nm - 200 µm
- fluorescence sensitivity: < 100 MESF (FITC)
< 50 MESF (PE)
- fluorescence resolution: CV ≤ 2%
- DNA quantification: CV < 1%
- configurations with up to 6 colors, 8 optical parameters + time parameter

Light Sources

- up to 4 light sources simultaneously
- blue solid state laser: 20, 50, 100 mW@488 nm
- red diode laser: 25, 40 mW@638 nm
- violet diode laser: 100 mW@407 nm
- UV diode laser: 20 mW@375 nm
- UV laser 20, 50, 100 mW@355 nm
- green DPS laser: 30/100 mW@532 nm
- yellow solid state laser: 100 mW@561 nm
- orange solid state laser: 50 mW@594 nm
- high power UV LED: 365 nm
- other laser power and laser wavelengths available

Optics

- modular optical system with up to 8 optical parameters with selected PMTs with integrated electronic preamplifier for FSC, SSC, FL1-FL6
- standard setup and filters
- color CCD camera for video flow monitor
- standard objective mount with high numerical aperture
- immersion gel coupling, e.g. for detection of weak cytokines (optional)
- separated intermediate image planes for optimized spatial filtering by diaphragms

Flow System

- synthetic quartz flow cuvette for laminar sample transport with sheath fluid
- sample port with computer controlled BioSafety cleaning system, avoids sample droplets and minimizes cross contamination
- True Volumetric Absolute Counting based on mechanical volume measurement, no need for reference particles
- contamination-free computer controlled precision syringe pump for sample transport and True Volumetric Absolute Counting, pump speed continuously adjustable from 0-20 µl/s, sheath fluid pressure continuously adjustable from 0-800 mbar
- easily accessible sheath fluid and waste reservoirs with fluid level sensors

Electronics

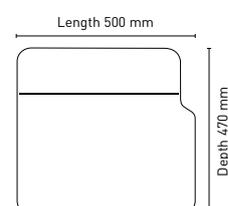
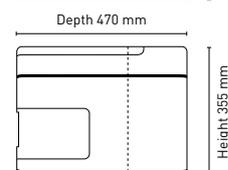
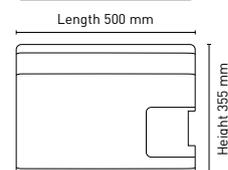
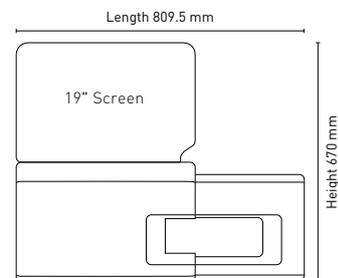
- parallel signal processing for each of the optical channels with 16 bit analog-to-digital converters
- single and multiple trigger on any parameter or combination of parameters (AND/OR)
- individual threshold level settings

Computer | Display

- built-in latest industry standard Windows™ PC
- integrated 19" TFT LCD display
- CCD video camera for flow monitor
- dual screen setup (optional)
- DVD-RW
- keyboard, mouse
- 100 MB/s and 1000 MB/s Ethernet connection
- DeskJet color printer, b&w or color laser printer (optional), printing via network

Software

- Windows™ based FCM software CyView™ for real-time data acquisition, real-time data analysis and real-time data display
- for detailed specifications please see page 12



Technical specifications are subject to change without notice. © Partec 2013. All rights reserved.



09 Company

FLOW CYTOMETRY MADE BY PARTEC.

Excellence for new applications and increasing requirements in clinical routine and research applications.

More than 40 Years of Experience and Professional Expertise

Partec (established 1967)—pioneer in flow cytometry for more than 40 years—continues this tradition by introducing the newest generation of CyFlow® Analysers and CyFlow® Sorters featuring innovative computer controlled fluidic systems, modular optical bench systems with advanced PMTs for all optical channels, state-of-the-art computer and digital electronic technologies as well as real-time data acquisition and real-time data display.



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Covering more than 100 countries worldwide
www.partec.com/worldwide

Highest Quality Warranty

Quality, performance, precision and cost effectiveness of Partec instruments and reagents profit from a unique production depth for manufacturing modules and components in optics, electronics, laser technology, fluidics and mechanics, employing a modern and sophisticated production line and Quality Management System with certified highest international standards. This includes research, development, production compliant to cGMP, service and customer support.



- Certified Management System
- EN ISO 9001
- EN ISO 13485

Product Fact Sheet

CyFlow[®] Cube 8

Product Picture



Product name

CyFlow[®] Cube 8

Manufacturer information

The CyFlow[®] Cube 8 is manufactured by Sysmex Partec GmbH.

Sysmex Partec is an ISO 9001:2008 and ISO 13485:2012 certified company.

Summary

The CyFlow[®] Cube 8 is a compact flow cytometer for analysis of single cells and microscopic particles with a high grade of integration. The CyFlow[®] Cube 8 gives the unique combination of a truly stand-alone system on a small footprint with a modular configuration system with up to 6 colours. The easy-to-use CyView[™] software provides instrument control, data acquisition and data storage. The possibility of customized instrument settings facilitates switching between different applications. Furthermore CyFlow[®] Cube 8 offers the True Volumetric Absolute Counting (TVAC) feature which allows displaying of particle concentrations for any subsets of cells without the need of reference beads, even if defined by a gate at a later time after the acquisition.

Productivity values

High-performance, bench-top design with fully-integrated fluidics, built-in PC and a 19" TFT monitor with a flexible choice of up to 4 light sources and 8 optical parameters.

Main features of CyFlow[®] Cube 8

- ✓ Configurations with up to 8 optical parameters (up to 6 colours)
- ✓ Choice between different lasers
- ✓ Particle size: 0.1 – 100 µm
- ✓ Fluorescence resolution: CV ≤ 2%
- ✓ Fluorescence sensitivity:
≤ 100 MESF (FITC) | ≤ 50 MESF (PE)
- ✓ Maximum acquisition rate 15.000 particles/s
- ✓ Flexible system configurations
- ✓ Automatic absolute counting by electrodes (TVAC) and syringe controlled volumetric counting
- ✓ Optional CyFlow[®] Robby 8 Autoloading Station for well plates and tubes
- ✓ Start-up time < 5min
- ✓ Easy to use acquisition software

Specifications

| Feature | Description |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parameters | <ul style="list-style-type: none"> • 5 to 8 optical parameters (6 colours + FSC & SSC) |
| Light Sources | <ul style="list-style-type: none"> • Up to 4 light sources (3 laser + high power UV-LED) • Blue laser: 50mW @488nm, 200mW, adjustable @488nm • Red laser: 25mW @638nm, 40mW @640nm • Violet laser: 100mW @405nm • UV laser: 60mW @375nm • Green laser: 30mW @532nm, 100mW @532nm • Yellow laser: 100mW @561nm • Orange laser: 50mW @594nm • High power UV LED: 365nm |
| Optics | <ul style="list-style-type: none"> • Modular optical system with selected PMTs with integrated electronic preamplifier for FSC, SSC, FL1-FL6 • Exchangeable optical filters • Standard objective mount with high numerical aperture • Separated intermediate image planes for optimized spatial filtering by diaphragms |



| | |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flow System | <ul style="list-style-type: none"> Quartz flow cuvette for laminar sample transport and hydrodynamic focussing Completely closed and integrated fluidic system Sample port with biosafety cleaning system True Volumetric Absolute Counting based on mechanical volume measurement Computer controlled precision syringe pump for sample transport, speed continuously adjustable from 0-20 µl/s Easily accessible sheath fluid and waste reservoirs with fluid level sensors |
| Electronics | <ul style="list-style-type: none"> Parallel signal processing for each optical channel Single and multiple trigger on any parameter or combination of parameters Individual threshold level settings 16 bit analog-to-digital converters |
| Computer | <ul style="list-style-type: none"> Built-in Windows™ PC Microsoft Windows™ 7 professional 64-bit operating system Integrated 19" TFT LCD display Dual screen setup (optional) Keyboard, mouse 4 USB ports 100 MB/s and 1000 MB/s Ethernet connection DeskJet colour printer, printing via network |
| Software | <ul style="list-style-type: none"> Windows™ based FCM software CyView™ for real-time data acquisition, real-time data analysis and real-time data display Editable CyView™ user environments Guided prime and shut down procedures Easy experimental template set up (configuration files) Flow cytometry standard file format for storage of original and evaluated data |

| | |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> 1 parameter histograms and dot plots 64 — 4096 channels resolution for 1 parameter histograms 64/64 — 4096/4096 channels for 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, sample volume Multi parameter online/offline crosstalk compensation Multi parameter gating (colour highlighting feature) Compensation can be stored separately or included in the FCS file FCS Express RUO software (dongle version) for data analysis and reporting |
| Dimension | <ul style="list-style-type: none"> L 500 mm x W 470 mm x H 370 mm with Autoloading Station: L 840 mm |
| Weight | <ul style="list-style-type: none"> Approx. 40kg |
| QC functions | <ul style="list-style-type: none"> Control of instrument operation |
| Interface | <ul style="list-style-type: none"> USB, LAN, Video Output |
| Operative temperature | <ul style="list-style-type: none"> 15-30°C |
| Operative humidity | <ul style="list-style-type: none"> 20-85%, non-condensing |
| Noise | <ul style="list-style-type: none"> < 70dBA |
| Electrical Specification | <ul style="list-style-type: none"> 2/II |
| Nominal voltage | <ul style="list-style-type: none"> 100 – 240 VAC |
| Power consumption | <ul style="list-style-type: none"> 200 VA |

| Optional configurations | Description |
|------------------------------------------------------------|---------------------------------------------------------------------|
| Standalone | |
| With CyFlow[®] Robby 8 Autoloading Station | Autoloading station for 48-well-plates, 96-well-plates or 2ml tubes |
| With CyFlow[®] Sorter | Piezo-electric cell- and particle sorting device |



Article number

| Article no. | Item | Description |
|-----------------|----------------------------------------|--------------------------------------|
| CY-S-3068R_V1_S | CyFlow® Cube 8 | 488/50-5P |
| CY-S-3068R_V2_S | CyFlow® Cube 8 | 488/50-5P 638/25-1P |
| CY-S-3068R_V3_S | CyFlow® Cube 8 | 488/50-6P 638/25-2P |
| CY-S-3068R_V4_S | CyFlow® Cube 8 | 488/50-6P 638/25-1P UV LED-1P |
| CY-S-3068R_V5_S | CyFlow® Cube 8 | 488/50-5P 638/25-2P 405/100-1P |
| CY-S-3068R_V6_S | CyFlow® Cube 8 Set | 488-50-6P 638-25-1P 375-60-1P |
| CY-S-3068R_V7_S | CyFlow® Cube 8 | 488/50-6P 638/25-1P 561/100-1P |
| CY-S-3080-8 | CyFlow® Robby 8 Autoloading Station | |
| 12-01-2000 | CyFlow® Sorter for CyFlow® Cube | |

This product is intended 'For Research Use Only' (RUO).



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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

