



Helping all people
live healthy lives

BD FACSCanto™ II Flow Cytometry System

Innovation with Impact



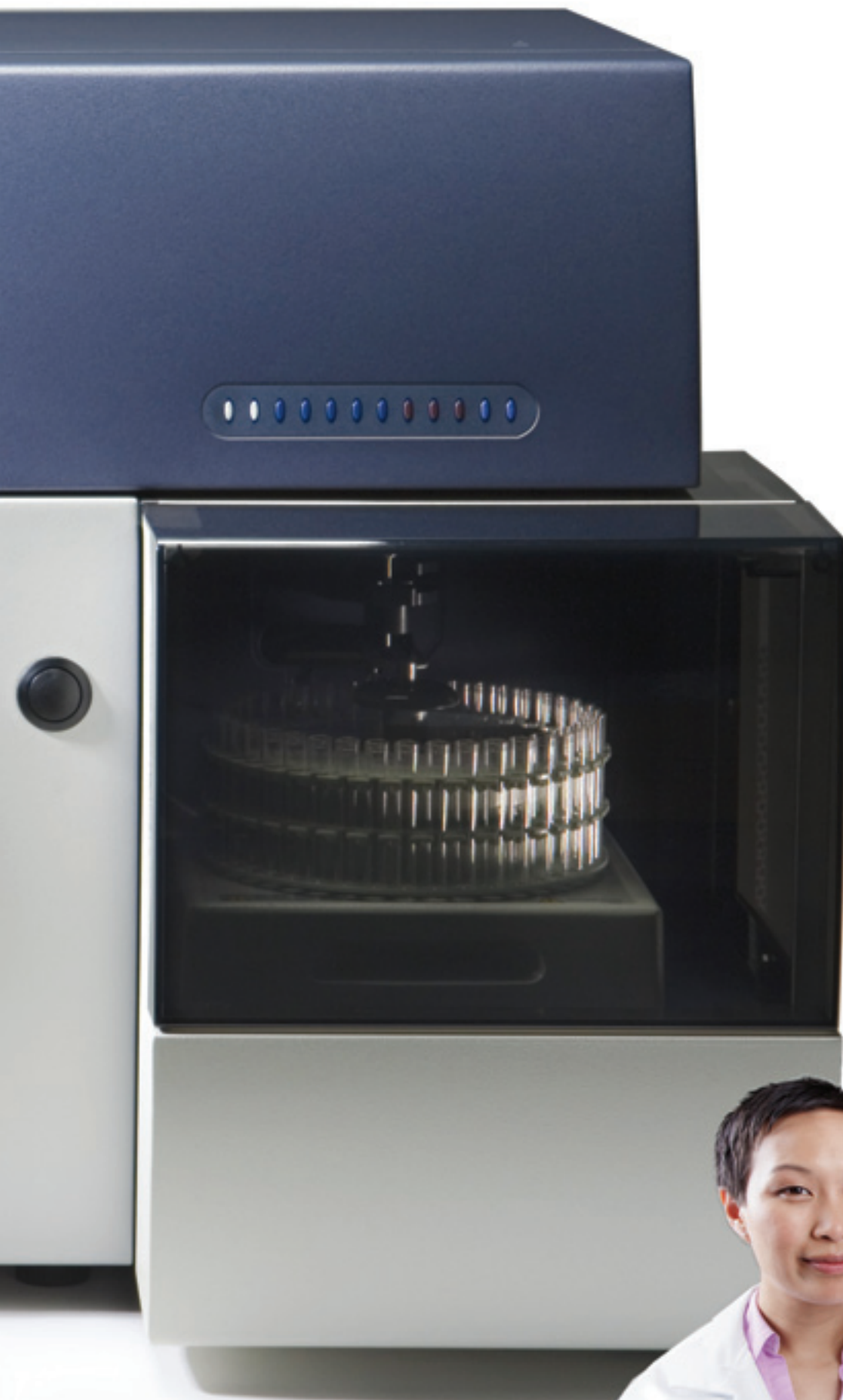
Breakthrough technology that sets the new standard for flow cytometry

Position your clinical laboratory for superior performance

Accuracy and productivity are most important when it comes to clinical diagnosis and monitoring. That's why the BD FACSCanto™ II system is designed to deliver industry-leading data quality in an easy-to-operate platform. With innovative 6-color capabilities for *in vitro* diagnostic testing, and a high degree of automation and superior operational efficiency, it's never been this easy to deliver high-quality results so quickly. And, because the system is designed for rapid adoption of clinical applications from streamlined to complex, implementation of the BD FACSCanto II system is seamless.

Elevate your research capabilities

For the research lab, the BD FACSCanto II system enables more opportunities for scientific breakthrough. With capacity for up to 8-color detection, microtiter plate loading, unsurpassed ability to create routine task efficiency, and a more flexible, modular design, this system combines powerful capabilities with easy-to-use operation.



Always Innovating

In 1973, BD developed the first commercially available BD FACST[™] system, spawning a generation of scientific breakthroughs. More than three decades later, the new BD FACSCanto II flow cytometry system marks an important milestone in the evolution of this powerful technology.

The BD FACSCanto II cutting-edge technology is built on more than three decades of experience. The end result is a patented optical design for enhanced signal retention coupled with digital electronics that capture up to 10,000 events per second. A novel sample injection system delivers carryover of less than 0.1%, surpassing current industry standards tenfold. You get optimal fluorescence sensitivity to resolve dim events and cleaner data from lower sample contamination and rapid processing rates. Now you can tackle more obstacles in rare event analysis and more functional studies for low detection ranges, than ever before.

**Quality data —
More. Better. Faster.**

- Facilitates routine and sophisticated cellular work with new, more sensitive optics, increasing resolution of rare and dimly stained populations using standard 6-color or optional 8-color configuration*
- Provides fixed optical alignment
- Enhances detection abilities of rare event applications with low sample carryover
- Delivers more precise data, better detection of rare events, and increased throughput for screening applications with powerful digital electronics

**Enhanced productivity delivered —
Optimized automation and operation**

- Decreases hands-on time with the BD FACSTM Sample Prep Assistant II for automated sample preparation
- Enables one-tube instrument setup for routine *in vitro* diagnostic applications with BD FACSTM 7-color setup beads
- Eliminates user-dependent setup with automated spectral spillover correction
- Delivers consistency with integrated quality control features such as Levey-Jennings plots
- Allows for walkaway sample introduction with BD FACSTM Loader for tube-based applications, or with the BDTM High Throughput Sampler (HTS)[†] for plate-based research applications
- Provides streamlined maintenance routines with integrated fluidics cart
- Delivers built-in flexibility to securely adapt to your laboratory
- Increases safety with fully integrated Loader covers
- Takes up less space in your lab with a compact footprint

Built-in flexibility realized — System configurations that adjust for the future

- Delivers more options in fluorophore selection with multiple laser technology and can be configured with 6 colors (4-2) or 8 colors (4-2-2)* for up to three spatially separated lasers at 405, 488, and 633 nm
- Provides automated tube-based sample loading with the BD FACS Loader option, or loading of microtiter plates with the BD HTS option for research applications
- Future growth with continued expansion of BD FACSCanto Clinical Software



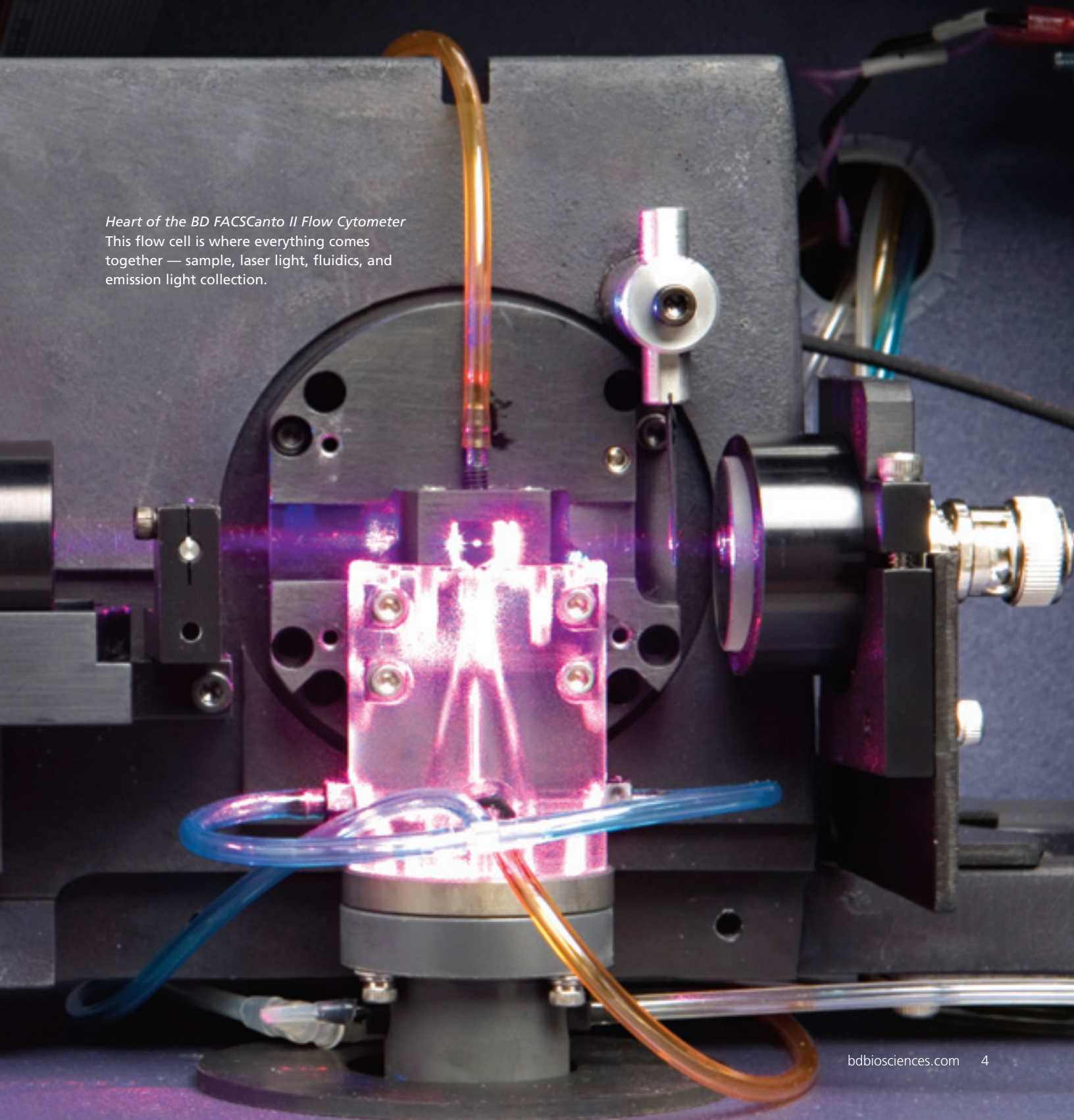
Optimal Detection Sensitivity

BD patented detector arrays use serial reflections to guide light signals for maximum signal retention at their primary detectors.



Innovation designed to deliver
quality, productivity, and flexibility

Heart of the BD FACSCanto II Flow Cytometer
This flow cell is where everything comes
together — sample, laser light, fluidics, and
emission light collection.



Clinical routine testing —
Ease of use meets faster
return on investment



Designed with your clinical laboratory in mind, the BD FACSCanto II system assures high throughput without compromising flexibility and performance. To maximize workflow, this system automates and reduces routine tasks, offers solutions for sample preparation, and provides more answers per test than ever before.

The BD FACSCanto II system includes a 6-color flow cytometer with fully integrated fluidics cart, a BD FACS Loader option for automated sample acquisition, BD FACSCanto Clinical Software, and BD FACS 7-color setup beads.



BD Biosciences offers a broad range of high-quality reagent products, from pre-mixed, readily available antibody cocktails to custom reagent solutions tailored to your individual laboratory testing needs.



BD FACS™ 7-color setup beads are used to monitor daily instrument performance and set up the BD FACSCanto II system for use.

Absolute counting of lymphocyte subsets — When it really counts

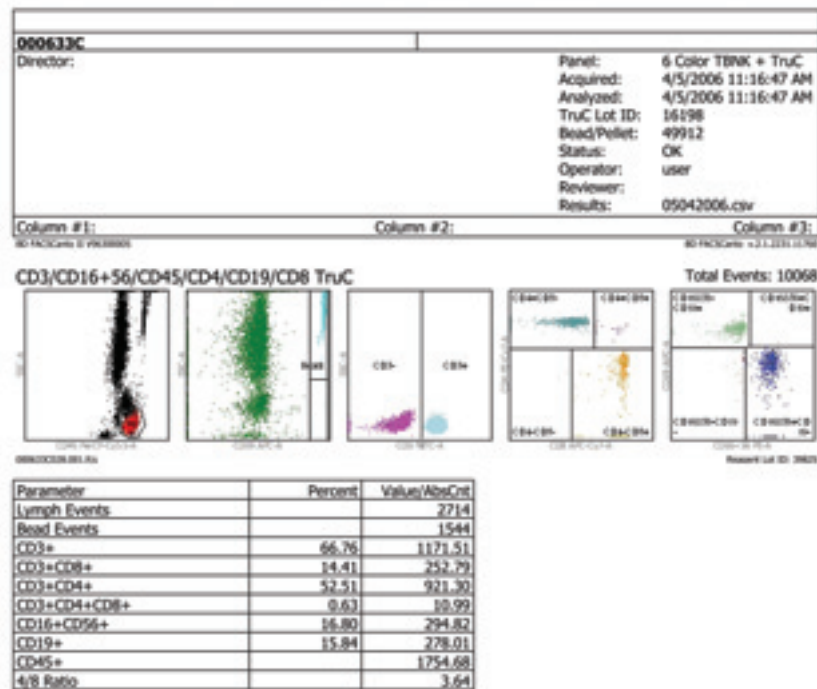
BD Biosciences diagnostic applications provide fast, accurate, and reproducible results. Using BD Trucount™ technology, you effortlessly achieve precise absolute counts of lymphocyte populations, all with a single technology platform. This eliminates additional pipetting steps and the need to integrate data from a hematology analyzer.



A turnkey system for pre-defined applications

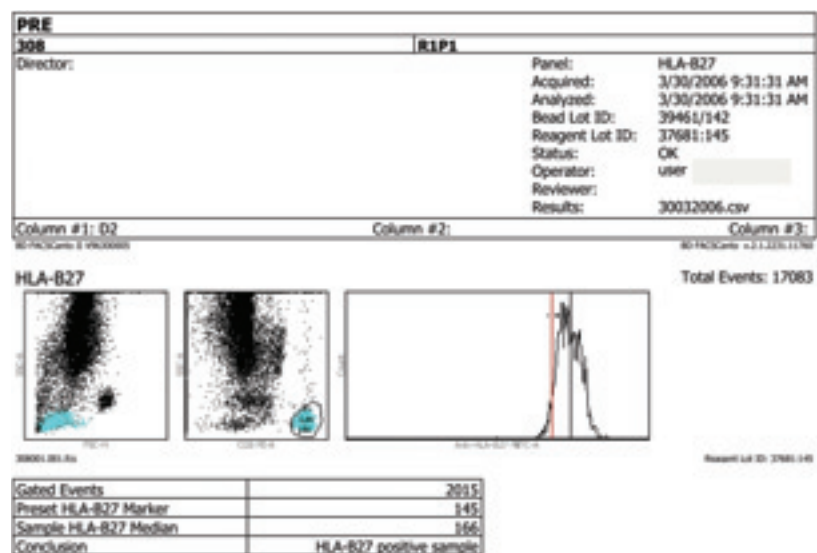
BD FACSCanto Clinical Software —

- Simplifies use because setup and spectral overlap correction are automated and use a single BD FACS 7-color setup tube
- Achieves integrated quality control with pass/fail determination, alarms, and error flagging
- Decreases down time with automated performance monitoring and tracking from Levey-Jennings graphs
- Automates report generation with printing and PDF generation
- Improves data integrity with standardized and automated cytometer setup and compensation
- Delivers day-to-day result consistency from standardized setup with BD FACS 7-color setup beads
- Delivers consistency from integrated TBNK and HLA-B27 modules such as those for automated gating, calculations, and report generation
- Improves laboratory integration with LIS connectivity offered by BD-certified suppliers



Monitoring HIV — Identification and Enumeration of Lymphocyte Subsets

The BD Multitest™ 6-color TBNK kit is the first and only 6-color *in vitro* diagnostic application to provide a complete immune panel in a single tube, saving you valuable time and resources for sample processing.



BD HLA-B27 Application

HLA-B27 for the BD FACSCanto II system provides a complete system for rapid detection of HLA-B27 antigen which is clinically relevant to the evaluation of seronegative spondyloarthropathies.

Manual Operation
Switch easily and within
seconds to manual sample
loading when using automated
sample-loading devices.



Cleaner Data

Lowered risk of sample contamination, as samples are directly introduced into the flow cell. Shown with BD FACS Loader carousel (40-tube capacity).



Advanced applications — from leucocytes to multiplexed beads and beyond

With its 8- to 10-parameter detection on particle sizes from 0.5 to 50 µm, the BD FACSCanto II flow cytometer is a powerful, compact and modular benchtop analyzer that supports a large menu of applications using BD FACSDiva™ software. It enables studies with leucocytes, cell lines, stem cells, platelets, multiplexed bead technologies, and much more. Multiparameter detection, combined with a highly sensitive optical system, allows advanced cell subset analysis, functional studies, as well as soluble and cell-surface protein quantification. In addition, it decreases the total sample volume necessary for a specific project, delivering more parameters per individual test.

Introducing two options for sample introduction

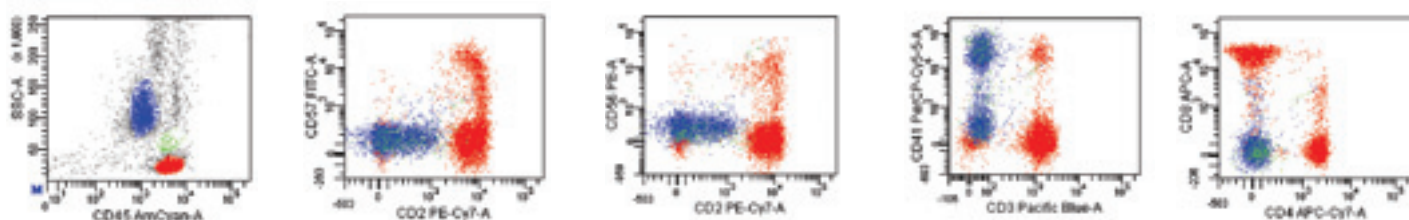
The BD FACSCanto II system offers two options for sample introduction: the BD FACS Loader with a 40-tube capacity, and the research-use BD HTS loader for sample introduction from microtiter plates (96 and 384 wells). Both devices are highly flexible, enabling a range of customized protocols for sample acquisition with a simple click-and-go experience.

The BD FACSCanto II system is designed for the following fluorophore combinations.

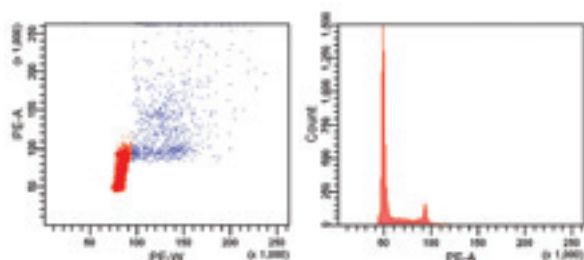
| Instrument | Laser | Excitation Laser Line (nm) | Fluorescence Channel | Fluorochromes Provided by BD Biosciences | |
|------------------|--------------|----------------------------|----------------------|--|-------------|
| BD FACSCanto™ II | Argon (L1) | 488 | Green | FITC | |
| | | | Yellow | PE | |
| | | | Red | PerCP | PerCP-Cy5.5 |
| | HeNe (L2) | 633 | Infra Red | PE-Cy7 | |
| | | | Red | APC | |
| | | | Infra Red | APC-Cy7 | |
| | Violet (L3)* | 405 | Blue | Pacific Blue® | |
| | | | Cyan | AmCyan | |



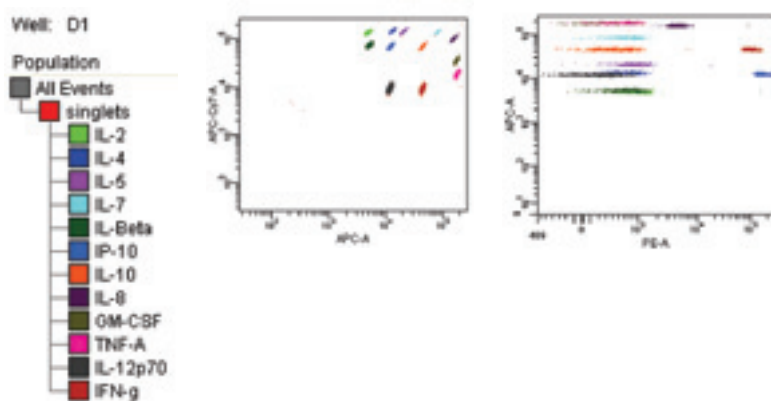
Multiple research application capability



Lysed whole human blood. 8-color immunophenotyping panel using FITC, PE, PerCP-Cy5.5, PE-Cy7, APC, APC-Cy7, AmCyan, and Pacific Blue™ fluorophores.



Cell-cycle analysis using propidium iodide–stained Jurkat cells.



BD™ CBA Flex Set cytokine 12-plex acquired with the BD HTS loader.

BD FACSDiva Software — Multiple applications and techniques from one software platform

- Delivers automated sample loading from tubes or microtiter plates
- Simplifies standardization with controlled cytometer setup by administrators
- Provides automated creation of compensation controls and spillover matrix
- Allows flexibility with off-line compensation
- Simplifies acquisition with integrated Dashboard and Browser
- Expands data visualization with linear, logarithmic, and biexponential displays
- Simplifies workflow with experiment, panel, and analysis templates
- Improves laboratory integration of data management with automated exporting of data and results
- Enables consistency between technicians from automated analyses with snap-to and tethered gating, and batch analysis



The BD High Throughput Sampler option provides automated walkaway acquisition using microtiter plates.

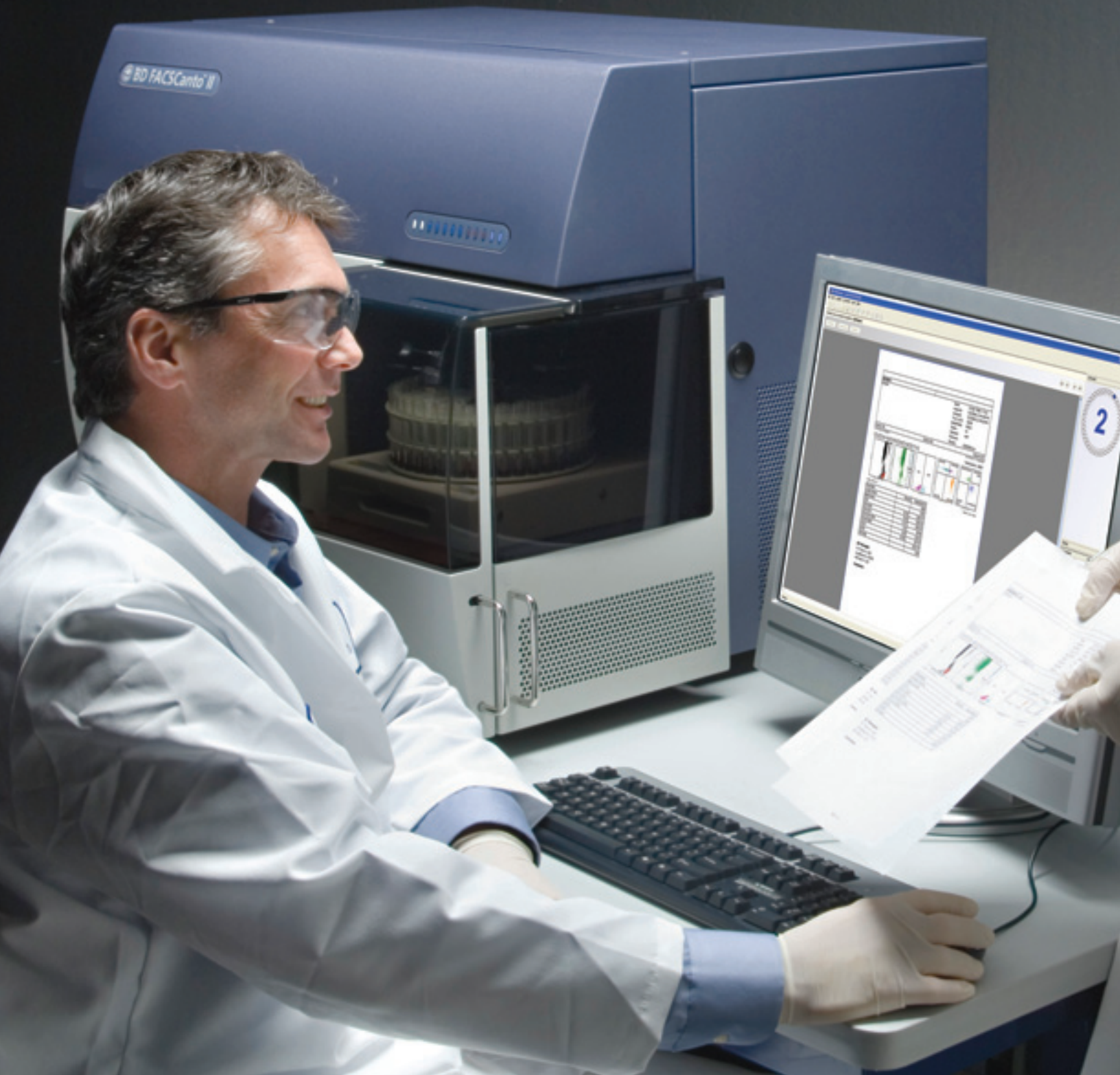
CAUTION:
Do not run instrument
cover removed.



CAUTION:
MOVING PARTS

Valued customers deserve added value

BD Biosciences has been a leading innovator in flow cytometry technology for over 30 years. Our flow cytometers and sorters are the industry standard in laboratories around the world, as demonstrated by an installed base of over 14,000 systems.





The new BD FACSCanto II represents the next evolution in flow cytometry. Developed using expertise from our digital systems, the high-end BD™ LSR II analyzer and the BD FACSARIA™ cell sorter, this system gives you more than just a new instrument. It provides access to BD Biosciences years of in-depth technical expertise and vast technical knowledge.



And because we understand how critical it is to have your system up and running, BD Biosciences backs its flow cytometers with BD FACSservice™ programs. We ensure maximum cytometer up-time with optimal performance, guaranteed response times, and highly trained service and application specialists ready to answer your important questions.

Visit bdbiosciences.com to learn more about the most complete flow cytometry system money can buy.

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CE marked according to the In Vitro Diagnostic Medical Device Directive 98 (79) EC.

For In Vitro Diagnostic Use

Class 1 (I) Laser Product

*Seven- and eight-color assays on this device require validation by the user for in vitro diagnostic use.

† For Research Use Only.

Patents PE and APC: US 4,520,110; 4,859,582; 5,055,556; Europe 76,695; Canada 1,175,942; PerCP: US 4,876,190; Cy5.5 and Cy7: US 5,268,486; 5,486,616; 5,569,587; 5,569,766; 5,627,027; APC-Cy7: US 5,714,386; PE-Cy7: US 4,542,104

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