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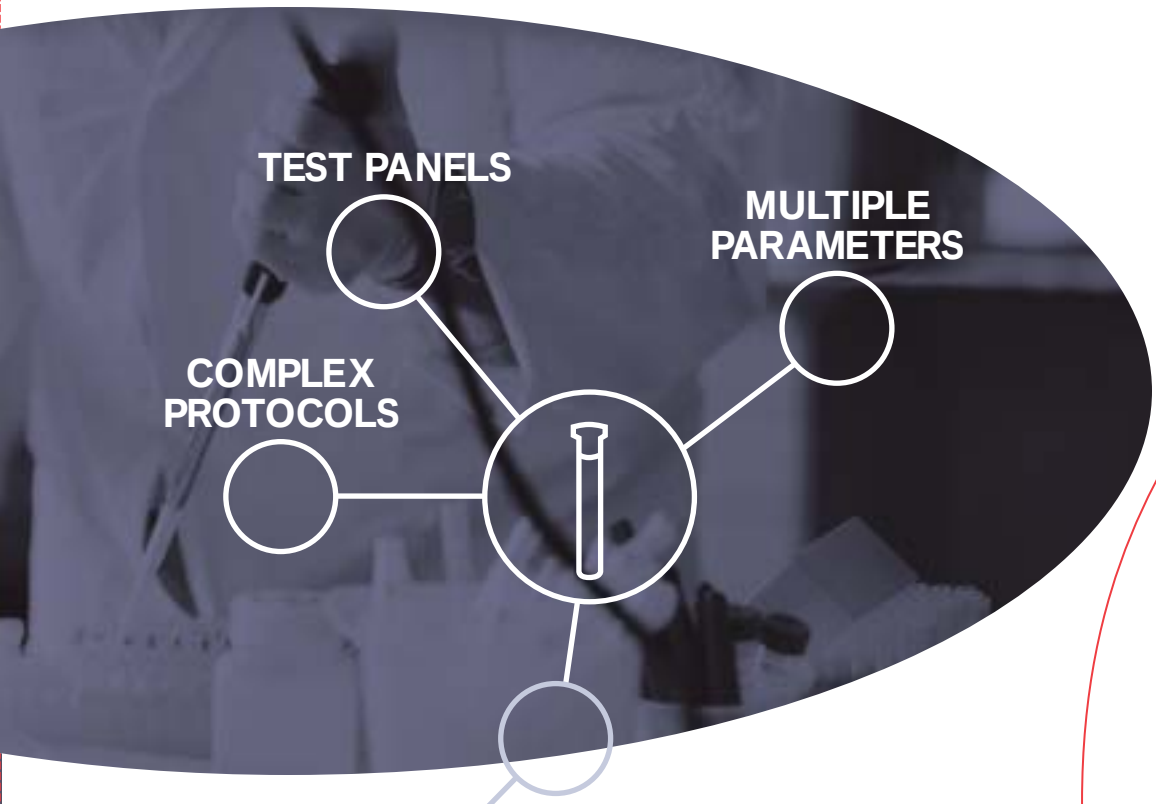
BECKMAN COULTER®

Solving complex testing issues.
Efficiently, reliably, safely.

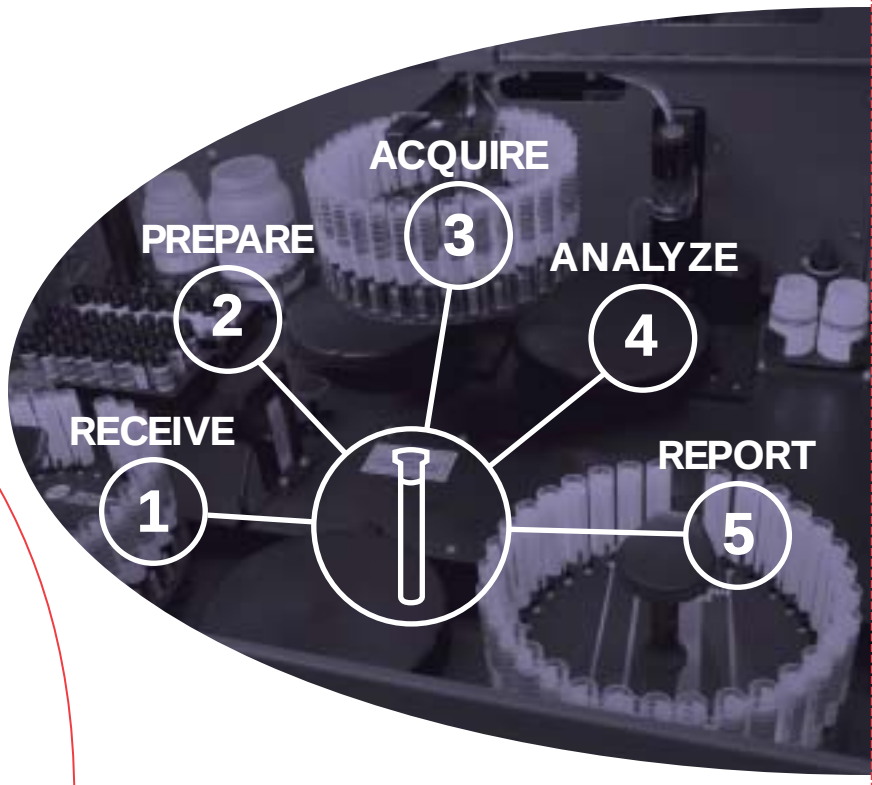
INTEGRATED CYTOMETRY SOLUTION

Simplifying flow cytometry processes through advanced automation.



AT BECKMAN COULTER, we know your busy discovery process depends on developing and applying testing protocols that deliver enhanced prognostic and diagnostic value. So we're offering a new breed of breakthrough automation solutions expressly designed to help you manage your testing processes efficiently, reliably, safely, and with peace of mind.

Automating tedious processes for faster, safer, more reliable results.



FOR THE FIRST TIME, the Integrated Cytometry Solution offers a seamless pre-analytical, analytical, and post-analytical solution coupled with complete LIS connectivity. By standardizing the five major steps a sample undergoes – and managing the electronic communications between each one – it delivers a progressive automated system that simplifies and streamlines workflow processes, increases efficiency and accuracy, accelerates throughput, and minimizes operator involvement.

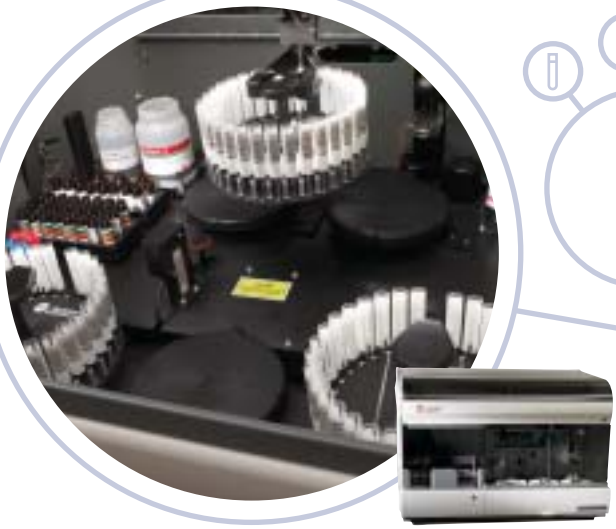
LEVERAGING many years of world-class expertise, our Integrated Cytometry Solution delivers a whole new level of capability to the flow cytometry laboratory. By focusing on simplifying and standardizing complex testing processes, it helps you manage arduous protocols, handle difficult testing panels, navigate the maze of data management, and ensure the most reliable single-patient results with an unprecedented level of ease and confidence.

WITH CONTINUOUS FEEDING of samples to the FP1000* Sample Preparation System, any run size proceeds smoothly and rapidly. At the same time, the samples are tracked and verified throughout the process, reducing errors, re-runs and incorrect sample IDs. The user determines which reagents and lytic system to use based on the protocol, and they are loaded into the FP1000.* Additionally, the number of mixes can be programmed by the user, facilitating accurate reagent setup results, and delivering unparalleled flexibility.

*Product under development.

WITH THE SAMPLES PROPERLY PREPARED, the carousels are moved to the FC 500. It locates the external worklist file on the FP 1000,* and opens it in a CXP database for processing and barcode-based sample tracking. For enhanced flexibility in labs with multiple instruments, the worklist can be sent via ethernet. It can also use native FC 500 or Excel formats, or a combination. To permit the operator to easily work with listmode data during analysis, it's stored in a user-created directory. With auto-setup capability, multi-color analysis using either single or dual laser excitation, and the ability to use a variety of dyes, the award-winning FC 500 delivers unmatched versatility.

ACQUIRE
3



PREPARE
2

BARCODE tracking on the daughter tubes provides paperless positive ID throughout the process, while three carousels deliver high throughput for increased lab efficiency (up to 96 daughter tubes per hour in batch mode for tetraCXP). For reduced operator involvement and increased safety, the FP 1000's* unique gripping arm transports sample carousels from storage to processing. By accessing sample tubes through cap piercing – as well as automatically dispensing antibodies into the daughter tubes – technologists are protected from potential sample exposure and reproducibility is increased.

RECEIVE
1

THE SAMPLE ID, test request and demographic information are sent from the LIS and captured in the Information Manager. At the same time, the run information is sent to the FP 1000* database. Complex panels, protocols, reagents and procedures are automatically set up, and a worklist is generated. To ensure accurate handling, data is transferred electronically from LIS to final results. This virtually eliminates transcription errors and costly sample re-runs, while freeing valuable techs for more important tasks.

*Product under development.

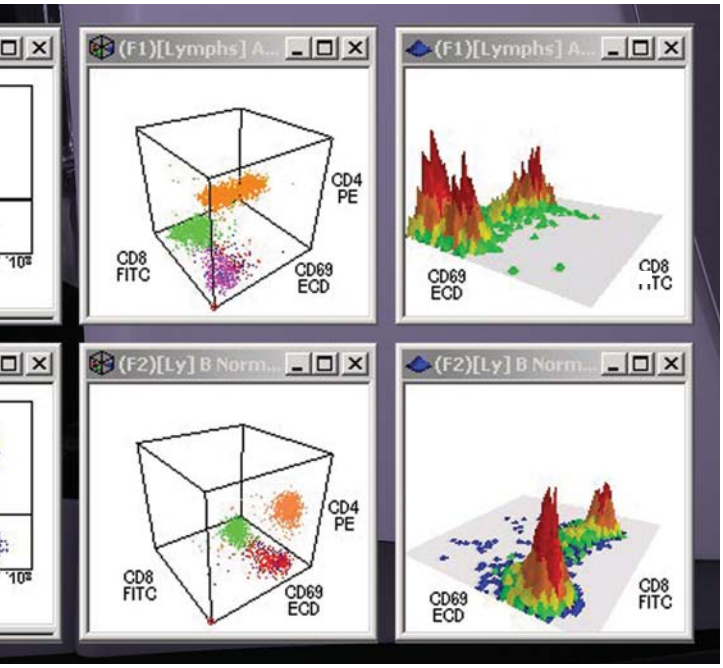
REALTIME OR LISTMODE DATA HANDLING, point-click gating, and 20-bit data acquisition are just a few of the ways the innovative FC 500 and its revolutionary CXP software deliver accurate and easy-to-interpret results – all of which can be printed at the FC 500 or uploaded to the LIS.

ANALYZE
4

THE INTEGRATED CYTOMETRY SOLUTION applies unmatched systemization to complex applications, assuring accuracy in sample and daughter tube identity, consistency in analysis, and flexibility in protocols.

REPORT
5

FOR THE UTMOST FLEXIBILITY AND SAFETY in how information is transmitted, password-protected results can be reviewed and verified at the Information Manager workstation before uploading, or they can be passed on directly to the LIS.



A FULLY AUTOMATED HIGH-THROUGHPUT SYSTEM.
Integrated pre-analytical, analytical and post-analytical capabilities. Seamless interaction with the Laboratory Information System. Precise sample traceability throughout the process. And a long legacy of leadership in flow cytometry. What does it all mean for your busy lab?

- Faster turnaround of patient samples
- Reduced operator interaction
- More accurate and reproducible results
- High-reliability instrumentation
- Streamlined setup
- Safety in sample tracking and integrity
- Reduced bio-hazard exposure
- Customizable data reporting options
- Easy access to thousands of reagents
- Worldwide service and support teams
- The FC 500 and CXP software comply with the European Union In Vitro Diagnostic Medical Device Directive 98/79/EC

THE INFORMATION MANAGER AUTOMATICALLY QUERIES the FC 500 database every 15 minutes or when needed, which it then uses to create a results summary. This automation virtually eliminates transcription errors, while freeing valuable techs for more important tasks.

LEADING THE CHARGE against life's most challenging diseases, our comprehensive line of integrated flow cytometry products use laser technology, optics, electronics and computers to identify and monitor a wide variety of illnesses.

Applications range from basic medical research to specialty testing and day-to-day diagnostics. In basic research and bio-pharma areas, our leading-edge tools handle immunology, cell function and physiology, cell cycle analysis, molecular biology, genetics, and microbial and plant cell analysis. In clinical research and patient care applications, they're used for CD4 enumeration, leukemia/lymphoma analysis, stem cell enumeration for bone marrow transplants, and cross matching for solid organ transplants.

Count on Beckman Coulter for a continuing pipeline of novel Integrated Cytometry Solutions that fuse advanced science with enhanced economics, and deliver a new level of functionality and efficiency to the laboratories of today and tomorrow.

For information on our comprehensive line of systems, please contact your local Beckman Coulter representative or visit our web site at www.beckmancoulter.com/integrated.cytometry

BECKMAN COULTER®

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