



THE POWER OF ONE SMART SOLUTION »

Imagine one partner for all microbiology automation needs

MicroScan Microbiology Systems





EXPERIENCE LABORATORIES CAN TRUST

A world leader in track-based laboratory automation, Beckman Coulter is bringing its expertise to the microbiology laboratory—providing complete solutions for every step, from initial specimen processing to final results.

Beckman Coulter's smart microbiology solution is the complete package: accurate results through best-in-class technologies, expert consultations and top-ranked support.¹ This comprehensive approach fully automates pre-analytical, analytical and post-analytical tasks, saving time and reducing overhead to improve patient care.

Accurate results through best-in-class technologies

Pre-analytical	Analytical	Post-analytical
<ul style="list-style-type: none">› COPAN WASP® DT: Walk-Away Specimen Processor› WASPLab™	<ul style="list-style-type: none">› MicroScan ID/AST› Bruker MALDI Biotyper® System	LabPro Information Manager

Consultations by pre-analytical automation experts

Full laboratory automation is a big step that involves change. Successful implementation requires the right partner who will listen to the laboratory's goals, recommend the right products, develop a plan and help efficiently bring it to life.

To start, the Beckman Coulter workflow consulting and continuous process improvement team conducts a thorough laboratory analysis, rapidly assessing current and future workflow demands. Using data-driven simulation tools, they'll help **design a customized solution to meet essential goals.**

- › Identify key challenges and workflow opportunities
- › Define customized solutions using best practices and industry benchmarks
- › Create ROI and financial justification analyses

Beckman Coulter's automation project management specialists take labs from decision to go-live by helping to **optimize workflow and create an implementation plan.**

- › Customize processing protocols
- › Consult with IT department and LIS vendors for connectivity
- › Conduct system validation and adjustments

Top-ranked, dedicated support every step of the way

The microbiology laboratory is a dynamic environment requiring effective implementation and ongoing support. Beckman Coulter's team of dedicated service engineers, technical application specialists and hotline specialists work in concert to **ensure laboratories get the most from its solutions.**

- › Service engineers are strategically located to provide timely installation and rapid response
- › Top-rated technical applications specialists² not only train staff and install Beckman Coulter instrumentation, but also share their microbiology expertise through on-site educational activities
- › Microbiologists on Beckman Coulter's hotline are available to respond to technical and service questions at no additional charge

“For me personally, it's extremely rewarding and exciting to be at the forefront of what's happening in microbiology automation. Partnering with Beckman Coulter is helping us reduce costs and improve the consistency of work. The microbiology automation solution we are implementing will help support our future growth.”

Dale Kahn, Central Laboratory Operations Director, Alverno Clinical Laboratories, Indiana, U.S.A.

Innovative training and education

Beckman Coulter has developed standardized process tools, education modules and programs designed to **maximize the experience with its products.**

- › Beckman Coulter's blended learning approach includes instructor-led training, web-based training and training tools designed to provide ongoing support to increase staff competency, efficiency and productivity
- › On-site, hands-on training ensures that the entire staff has an effective learning experience with new systems
- › Special advanced training for key operators is available for some systems

Rely on Beckman Coulter's technical teams to help labs get it right.



AUTOMATION EVERY STEP OF THE WAY

With more than 40 years of ID/AST testing expertise, strong strategic partnerships and proven track-based automation leadership, Beckman Coulter provides the **optimal microbiology solution with scalable abilities** to meet all future workflow needs.

Beckman Coulter's smart solution integrates and automates pre-analytical, analytical and post-analytical steps throughout the laboratory, improving productivity, streamlining workflow, providing accurate results for clinicians and improving patient care. This is what full automation looks like.

Specimen processing

> COPAN WASP® DT: Walk-Away Specimen Processor

- Automates all core aspects of specimen processing, even with challenging samples
- Standardizes streaking to ensure superior isolation and eliminates variability between technologists
- Simplifies future expansion through modular design, such as automated conveyor tracks

> Digital Microbiology COPAN WASPLab™

- Automates routine, manual activities such as plate transportation, sorting and matching
- Provides optimal conditions to support robust growth with robotic incubators
- Streamlines culture analysis and results with a combination of sophisticated software and high-resolution imaging technology

Informatics

> Information management systems

- From order to LIS transmission, the LabPro software suite provides powerful data management for test results, which increases efficiency in busy, complex laboratories
- Integrated LabPro Alert_{EX} software contains an extensive database of predefined rules, recommended by microbiology leaders, and is fully customizable
- Programmable middleware solutions provide connectivity and data management options that can be tailored to each laboratory's needs

ID/AST and rapid ID

> DxM MicroScan WalkAway system

- Delivers gold-standard³ accuracy for microorganism identification and susceptibility testing
- Enables simultaneous processing of conventional, rapid and specialty panels on a single, automated platform
- Provides accurate emerging-resistance detection for the most challenging pathogens, including CRE, ESBL, MRSA, VRSA, VRE and PRSP

> Bruker MALDI Biotyper® system

- Identifies organisms rapidly to provide critical information for clinicians
- Addresses a wide range of microorganisms with low cost and high accuracy
- Allows for seamless Lean workflow with the DxM MicroScan WalkAway system

Smart microbiology automation solution

1. COPAN WASP: Walk-Away Specimen Processor
2. Digital Microbiology COPAN WASPLab
3. DxM MicroScan WalkAway system
4. Bruker MALDI Biotyper system
5. Information management systems

Specimen processing

Pre-analytical

Informatics

Post-analytical

ID/AST and rapid ID

Analytical





OPTIMIZE LABORATORY WORKFLOW

Microbiology laboratories face many challenges, such as balancing budget constraints with a shortage of skilled technologists and increased workloads. The COPAN WASP DT: Walk-Away Specimen Processor and WASPLab System help microbiology laboratories meet these challenges with an **integrated solution that streamlines functions, increases capacity and accelerates reporting**. These technologies provide enhanced workflow efficiency and improved patient care.

COPAN WASP DT: Walk-Away Specimen Processor

- › Automates all core aspects of microbiology specimen processing with:
 - Automatic planting and streaking
 - Gram slide preparation
 - Enrichment broth inoculation
- › Standardizes robotic streaking, with classic microbiology patterns, improves isolation
- › Customizes system and streamlines workflow through protocols
- › Ensures accurate results with internal camera and SmartScan barcode technology
- › Supports adding newer technologies, as needed, through modular design



“The installation of the WASPLab has changed my workday as the system can cover part of my daily tasks and give me more free time for other activities.”

Milva Ombretta Bertazzolo, WASPLab Operator, Niguarda Hospital, Milan, Italy

COPAN WASPLab components

1. WASP: Walk-Away Specimen Processor
2. Smart incubator and imaging camera (single: 854 plates; double: 1,708 plates)
3. Custom track system
4. Image acquisition station



COPAN WASPLab system

By incorporating a sophisticated, barcode-driven specimen processor with robust pre-analytical processing, automated incubation and high-resolution imaging, the COPAN WASPLab system **frees technologists from labor-intensive manual tasks, allowing them to focus on the highly complex work** for which they were trained.

› Smart incubators provide:

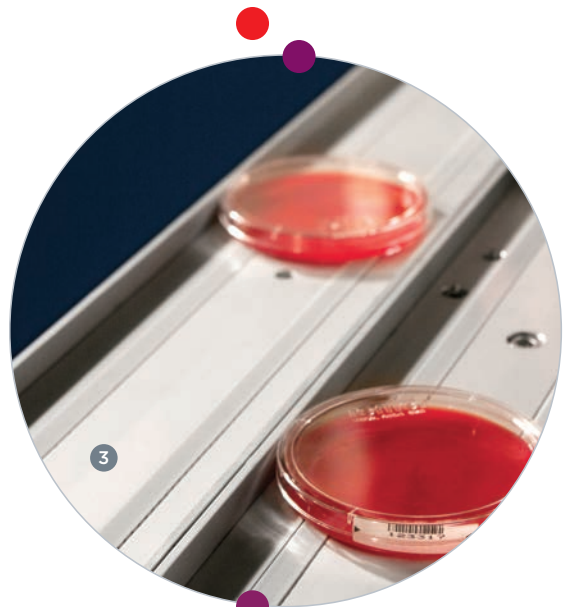
- Robotic plate management
- High-resolution imaging, including time-zero images
- Precisely controlled environment to support faster, more robust growth

A high-resolution digital imaging acquisition camera provides 27-megapixel images under a variety of lighting options with no distortion.

COPAN WASPLab software

› Web-based WASPLab software supports:

- Flexible workflow management
- Streamlined reading and resulting of cultures
- Quicker availability of valuable clinical results





ACCURACY MATTERS

Discover the winning combination that **enhances workflow efficiency and improves patient care**. MicroScan microbiology systems detect antimicrobial resistance ensuring accurate detection of emerging and low-level resistance with direct, growth-based ASTs. The Bruker MALDI Biotyper system delivers fast, accurate microbial identifications. These technologies enhance antimicrobial stewardship activities to support patient care goals.

DxM MicroScan WalkAway system

MicroScan microbiology systems deliver a true, growth-based ID/AST method for microorganism identification and susceptibility testing. These systems provide high-quality performance and reliability for laboratories of every size.

> Trusted quality

- Provides gold-standard accuracy for microorganism identification and susceptibility testing
- Supports multiple workload needs with 40- and 96-panel modules
- Includes automated incubation, test interpretation and reagent control



MicroScan panels

> Resistance detection done right

- Detect emerging resistance with non-ID-dependent, direct MIC technology
- Manage changing formulary needs with a broad antibiotic menu
- Eliminate reliance on historical data to provide a real-time accuracy advantage
- Select ID-only, MIC-only and ID/AST combination panels for workflow flexibility
- Streamline workflow with the fewest clinically significant FDA limitations among major automation systems
- Choose from a variety of panel formats, including overnight, rapid, ESBL *plus*, MICroSTREP *plus* and specialty ID panels

“The MicroScan unit is an overnight testing system that is a true growth/no growth system, which gives you the most accurate results. It offers the flexibility of either a full MicroScan MIC panel or combination identification and susceptibility panel. The MicroScan [system] has been very consistent and reliable; it’s attested by the fact that we have 10 of them.”

James Clark, M.T. (ASCP), Microbiology Manager, Alverno Clinical Laboratories, Indiana, U.S.A.
Bruker MALDI Biotyper System

Bruker MALDI Biotyper system

The Bruker MALDI Biotyper system uses MALDI-TOF technology, which is **highly accurate and works with a wide range of microorganisms**. This cost-effective system is much faster than traditional methods and provides the ideal complement to the MicroScan WalkAway *plus* system.

> Make every minute count

- Gold-standard MALDI-TOF technology provides rapid microbial identification
- Rapid reporting supports antibiotic stewardship initiatives for better patient management
- Streamlined Lean workflow drives maximum productivity
- High throughput produces 192 identifications per hour

> Flexible options on demand

- Comprehensive database saves time and streamlines workflow
- FDA-cleared and optional-use RUO databases exist on the same platform
- Reusable, 48-spot steel targets are compatible with FDA processing, and a variety of target options are available for RUO processing

> A true benchtop solution

Compact, ergonomic and environmentally friendly, the small footprint fits easily into the most space-constrained laboratory



Bruker MALDI Biotyper System



MAKE ACCURATE RESULTS ACTIONABLE

The LabPro software suite—with LabPro Alert_{EX}, LabPro Connect and LabPro-MBT—improves workflow. As laboratories expand, data management becomes increasingly important. Beckman Coulter’s middleware solutions provide **flexible options for laboratories of all sizes, delivering enhanced data management, timely reporting and improved patient care.**

LabPro software suite

- › **LabPro Information Manager**—the powerhouse of the system
 - Offers the flexibility of full customization
 - Manages results from order entry to LIS transmission
 - Enables easy expansion with other LabPro software applications
- › **LabPro Alert_{EX}**
 - Provides automated, atypical-results detection for quick reporting
 - Supports customization of alternate breakpoints for interpreting MIC results
 - Directs staff to the most appropriate actions based on customized institutional procedures
- › **LabPro Connect**
 - Enables technologists to manage MicroScan results without leaving their reading station
 - Consolidates data from multiple MicroScan systems
 - Saves time by eliminating unnecessary movement
- › **LabPro-MBT**
 - Combines antibiotic susceptibility test (AST) results with rapid MALDI identification
 - Applies LabPro and Alert_{EX} customization rules for seamless results management
 - Improves productivity by streamlining workflow



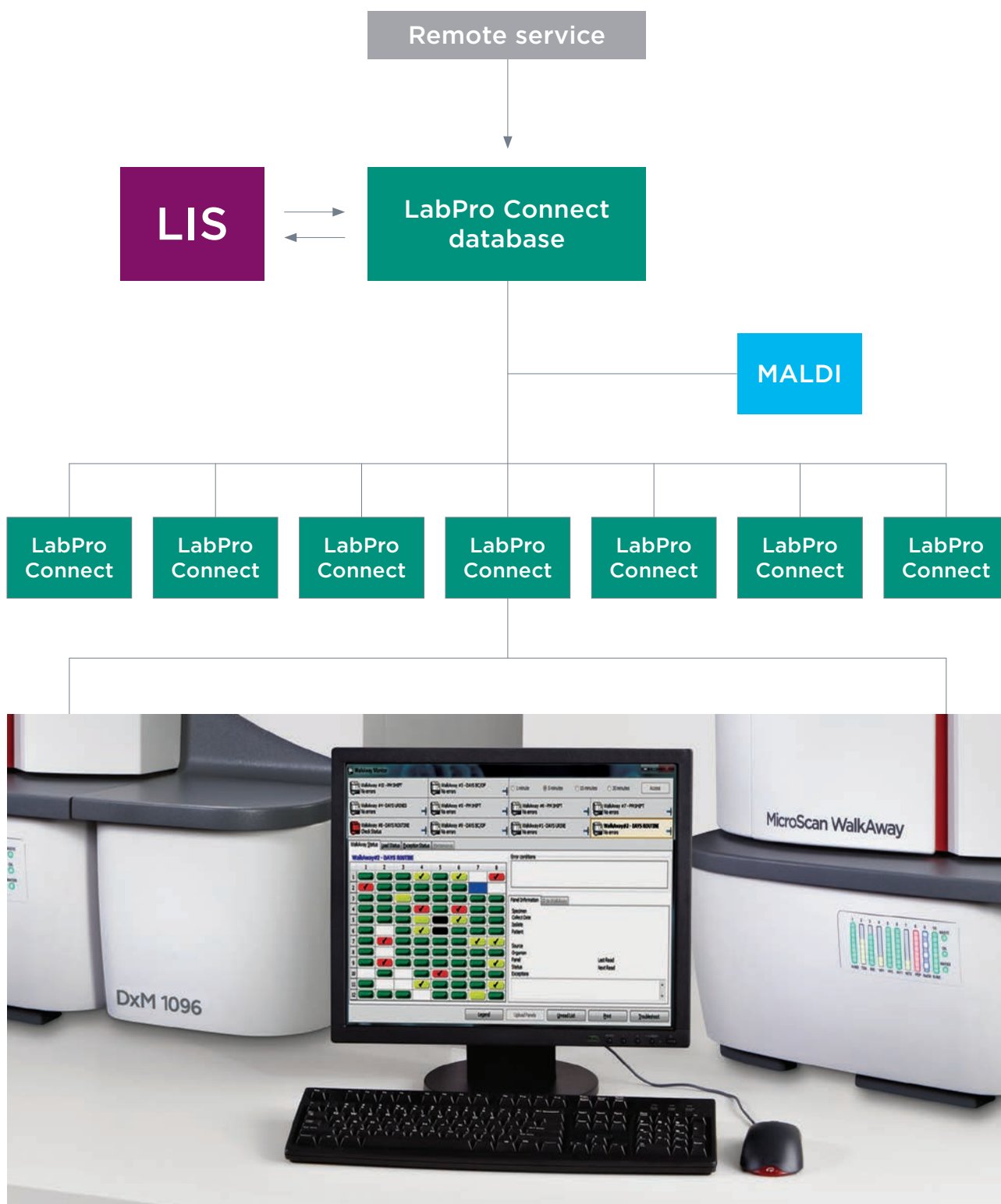
“Everyone can access LabPro from their own computer. Much smoother, so no more waiting in line or congestion. When doctors call for results, we’re able to minimize screens, click on the LabPro/WA monitor, click a chicklet and give results.”

Violet Rekasius, Technical Specialist, Loyola University Laboratory, Illinois, U.S.A.



MAXIMIZE LABORATORY CONNECTIVITY

Up to 18 connected WalkAway instruments with LabPro Connect





Not all products are available in all countries. Please contact your local sales representative for more information.

¹MD Buyline. *User Satisfaction Trending for Beckman Coulter Microbiology Systems*. October 1, 2016.

²*ServiceTrak Clinical Executive Summary Report for ID/AST Systems*, 2016.

³*Kalorama United States Market for In Vitro Diagnostic Tests*, 2017, pg. 878.

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