REDEFINING THE FUTURE OF AUTOMATED SPECIMEN PROCESSING
What is WASP Lab™?

WASP Lab™, a sophisticated barcode driven microbiology specimen processor and work-up system, connects with WASP®DT using a conveyor track. WASP Lab™ moves samples from front end processing to full specimen management, automated incubation, and digital Microbiology. With its modular design and small footprint, WASP Lab™ can be customized to the unique needs of the lab. The robotic plate management system, smart incubators, and state-of-the-art image acquisition technology, are changing the way labs work and opening the door for groundbreaking digital Microbiology.
How Smart are the WASPLab™ Smart Incubators?

So Smart that they will Shorten Turnaround Time in the Lab!

**INDIVIDUAL PLATE SHELVES** ensure homogeneous environmental conditions and excellent thermal conductivity to bring plates up to the appropriate temperature and atmospheric condition quickly and efficiently. Many WASPLab™ users have validated the reading of plates earlier, improving turnaround time by delivering actionable results faster and within the therapeutic window.

Plates Can be Incubated Media Side Up or Down

**DEPENDING ON THE LABORATORY WORK PROTOCOL,** smart incubators can automatically invert each plate prior to incubation, preventing condensation from falling onto the media. If you need the plate right side up, WASPLab™ can do that too!

Easy To Clean!

**COMPACT INCUBATOR SHELVES** are easily removed and autoclaved to maintain the most sanitary conditions.

**High Capacity**

**SINGLE INCUBATOR CAPACITY:** 854 plates

**DOUBLE INCUBATOR CAPACITY:** 1,708 plates
Microbiology in a Digital Age

Three Lighting Systems to Collect Optimal Plate Images

NOT ALL PLATED MEDIA IS THE SAME. The WASPLab™ Image Acquisition system uses different lighting for image capture depending on the media color or opacity.

27 MegaPixel, Larger than Life Images

IN ADDITION TO THE SHARPEST IMAGE in the industry and colony detection for colonies as small as 0.1 mm in diameter, the WASPLab™ camera optics have an enormous 9mm depth of field. This means that both small, low colonies and large, high colonies are always in focus, so you will not miss discrete growth of a pathogen.

Unique Comparative Differential Image Analysis for the Most Precise Reading

A CRITICAL TIME ZERO READING OF EVERY CULTURE PLATE is recorded in order to identify and eliminate any existing artifacts associated with each media plate.

Time zero is crucial to true comparative differential image analysis, allowing the software to ignore the noise and focus on the growth.

An Image This Important Must Be Undistorted

The telecentric lens uses constant magnification; eliminating perspective angle error, so that the image on the screen is true to life with no distortion. This critical feature enables the precise location and picking of colonies using the original image.

The WASPLab™ Image Acquisition Technology uses a highly sophisticated lighting and camera system so that each plate photo is clear and accurate. It’s like using a plate microscope with every plate, allowing you to make the most accurate work-up decision.
Better Than the Naked Eye

Plate photo taken with professional Nikon D300S in raw format processed and cropped to 4200px by 3900px @ 300DPI for a image file size of 49.3MB.

Plate photo using WASPLab™ Trilinear Camera, telecentric optics, 27 megapixel plate image.

27 MegaPixel, Larger than Life Images

THE 27 MEGAPIXEL RESOLUTION OF PLATE IMAGES acquired using WASPLab™ allows for the most accurate and clear on-screen appearance. Users report finding growth on a digital image that was missed when looking at the actual plate.
**Streamlined Workflow**  
For Faster, More Accurate Patient Results

### Screen
- Incubation protocols can be set to scan and record images as determined by the lab.
- Plate images are presented for review at the Screening Station.
- Images may be grouped and sorted based on colony counts, allowing users to result no growths with just one click!

### Pick
- Users obtain plates requiring work-up from the canisters and bring them to the Picking Station.
- After scanning the plate barcode, the image is automatically loaded with the digitally tagged colonies and work-up instructions.
- With the optional C-Tracer, users are directed to the exact colony to choose using a laser light.

### Read
- Plate images requiring further investigation are sent to the Reading Station.
- Users can zoom into the images to scrutinize and tag colonies, assigning user defined presumptive ID’s.
- Gram stain images are presented with the plate images, allowing for the most accurate picture of the patient condition!
- Work up tickets for tasks such as MALDI-TOF, AST, Subculture, Gram Stain or Spot Biochemical testing are created, and plates are automatically sent to a designated work-up canister.

### Report
- The WASPLab™ software can send results automatically to the LIS, along with the plate and Gram slide images and Microbiology interpretation of results, allowing point-of-care providers to collaborate with the laboratory, and bringing Microbiology back to the patient bedside!

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**Table: Urine Descriptions**

<table>
<thead>
<tr>
<th>Preferred Description</th>
<th>Add New Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No growth</td>
<td>No significant growth or skin contaminants only</td>
</tr>
<tr>
<td>Mixed growth &gt;10⁵ CFUs per ml</td>
<td></td>
</tr>
<tr>
<td>&gt;10⁵ CFUs per ml</td>
<td></td>
</tr>
<tr>
<td>10⁴ to 10⁵ CFUs per ml</td>
<td></td>
</tr>
<tr>
<td>&lt;10⁴ CFUs per ml</td>
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**Presumptive IDs**

<table>
<thead>
<tr>
<th>Preferred Presumptive ID</th>
<th>Add New Presumptive ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lactose Fermenting Coliform (LFC)</td>
<td></td>
</tr>
<tr>
<td>Non-Lactose Fermenting Coliform (NLF)</td>
<td></td>
</tr>
<tr>
<td>Presumptive E.coli</td>
<td></td>
</tr>
<tr>
<td>Presumptive Klebsiella spp.</td>
<td></td>
</tr>
<tr>
<td>Presumptive Proteus spp.</td>
<td></td>
</tr>
<tr>
<td>Presumptive Enterococcus spp.</td>
<td></td>
</tr>
<tr>
<td>Presumptive Staphylococcus spp.</td>
<td></td>
</tr>
</tbody>
</table>

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**Digital Microbiology**

Allows laboratory professionals to quickly and accurately read and share information with doctors and nurses.
COPAN Continues to Innovate Automation

Core Lab Gets on the Same Track!

WASPLab™ Integrates into core laboratory processing using industry-proven track system for managing specimens. This integration eliminates the need to sort specimens by lab area. The track takes all samples from a centralized receiving area to the correct instrument for processing.

Integrated Gram Slides

WASPLab™ Interfaces seamlessly with Gram slide photography microscopes to incorporate Gram slide photos into the patient record allowing users to compare plate growth with Gram slides for the most accurate view of the patient’s condition.

Administrative Dashboards

Individual dashboards show the operator the workload for the shift: what has been done and what needs to be done.

Administrator dashboards provide real time snapshots of the laboratory workload and allow managers to reallocate the work to prevent bottlenecks.

Key performance indicators and efficiency levels can be easily measured using the dashboards.

The Newest Addition to the COPAN Automation Family!

Colibrí™ is an Open Platform System utilizing a diversity of consumables from different suppliers or prepared in house. Open platform Colibrí™ can work in-line with WASPLab™ or as a standalone workstation.

Works with a Group or Independently!

Colibrí™ automatically picks colonies based upon digital coordinates specified by the laboratory technologists reading images in the WASPLab™ software.

Off Line Plates not managed by the WASPLab™ can be loaded onto the instrument where colonies can be manually designated for picking using an onboard camera and touch screen.

McFarland Suspensions

Colibrí™ seeds colonies into various size tubes and bottles to prepare McFarland suspensions and applies barcode labels. The onboard Nephelometer automatically checks the opacity of the suspensions and prepares a purity plate to check quality of the culture made in the suspension tube.

MalDI-TOF Seeding

Colibrí™ can seed MALDI-TOF target plates and automatically applies the matrix to the plate! The system works with all manufacturers’ targets.

COPAN Continues to Innovate Automation

At COPAN, the words Innovating Together, are not just a tagline. We live for that next “ah ha!” moment and are continually inventing, innovating and improving in order to bring the best products and technology to Preanalytics and Microbiology.

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<table>
<thead>
<tr>
<th>Feature</th>
<th>WASP® DT:</th>
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</thead>
<tbody>
<tr>
<td>Dimensions:</td>
<td>43.5 inches wide x 81.5 inches long x 76 inches high</td>
</tr>
<tr>
<td>Weight:</td>
<td>Approximately 1,300 lbs</td>
</tr>
<tr>
<td>Input Voltage:</td>
<td>220V, 20Amps</td>
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<tr>
<td>Network Ethernet:</td>
<td>100 MB</td>
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<tr>
<td>Interface:</td>
<td>LIS interface available upon request</td>
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<tr>
<td>Peripherals:</td>
<td>Touch screen monitor, external barcode reader, label printer</td>
</tr>
<tr>
<td>Certifications:</td>
<td>CE, UL, CSA</td>
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<tr>
<td>Electrical Receptacle Plug:</td>
<td>HBL2321 250V / 20A (for USA and Canada)</td>
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### GRAM SLIDE PREP™ Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>GRAM SLIDE PREP™:</th>
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<tbody>
<tr>
<td>Dimensions:</td>
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<tr>
<td>Weight:</td>
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### INCUBATORS Specifications

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<tr>
<th>Feature</th>
<th>INCUBATORS:</th>
</tr>
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<tbody>
<tr>
<td>Dimensions Single:</td>
<td>45.1 inches wide x 33.7 inches long x 91.1 inches high</td>
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<tr>
<td>Dimensions Double:</td>
<td>68.5 inches wide x 33.7 inches long x 91.1 inches high</td>
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<tr>
<td>Weight:</td>
<td>Approximately 1,000 lbs (Single) Approximately 2,000 lbs (Double)</td>
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<tr>
<td>Input Voltage:</td>
<td>220V, 20Amps</td>
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<tr>
<td>Atmospheric Conditions:</td>
<td>CO₂ and Aerobic</td>
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<tr>
<td>Capacity Single:</td>
<td>854 plates</td>
</tr>
<tr>
<td>Capacity Double:</td>
<td>1,708 plates</td>
</tr>
<tr>
<td>Electrical Receptacle Plug:</td>
<td>HBL2321 250V / 20A (for USA and Canada)</td>
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</table>