

Automating Colony Counting

To improve quality and staff walkaway time



Overview

In microbiology labs, food testing and water testing, counting colonies is one of the most time-consuming processes and also one where the most human errors can occur as it is a highly repetitive, tedious process. As a result, staff turnover is high, and labs are often understaffed.

The benefits



Walkaway time



Scalability



Increased quality

Automata Labs' automated colony counting solution integrates three lab robotic solutions to increase scale, quality and walkaway time for lab workers. The solution is a highly-flexible, modular automation station, able to fit into labs of all shapes and sizes.

Automata Labs automated colony counter solution

Features

Enhanced scale	5 plates per minute processing, 300 Plates per hour, 2400 Plates for working day
Safety	The cell is protected with interlocks and plexiglass. Whenever the door is opened the robot inside will pause, preventing any potential injury
Offline use	The Scan4000 is positioned in a way to allow offline use by operators when the cell is not in use
Plate hotel	The plate hotel is able to hold up to 180 dishes at any time allowing for a long walkaway time
Ease of use	With a simple user-interface no complex training is required by operators to start using the system
Validity	Plate barcodes are scanned to accurately record the counting data against the correct barcode / plate. All images can also be recorded
Plate disposal	Plates are disposed of automatically into a bin under the pod

Tech specs

Device	Description	Spec
Colony Counter Interscience Scan 4000™	Ultra-HD automatic colony counter	<ul style="list-style-type: none">■ Minimum size of detected colony: 0.05 mm■ Camera: 5 megapixels - zoom x 69■ Counting on Ø 55 to 150 mm round Petri dishes and 120 mm square Petri dish■ Counting on pour, surface, Spiral, circle mode plated dishes
Eva Robotic Arm™	Automata's proprietary 6-axis robotic arm	<ul style="list-style-type: none">■ Max payload 1.25Kg■ Small footprint perfect for labs■ Designed to hold Petri dish from 55 mm - 120 mm
SciRobotics PetriSel™	Petri dishes storage carousel	<ul style="list-style-type: none">■ 12 stackers containing up to 15 Petri dish each■ Includes a sensor that automatically counts the number of dishes in each tower■ Capacity can be increased if required

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We understand that each lab will have its own specific requirements and objectives. Speak with one of our automation experts to see how you can create new opportunities for innovation in your lab.