

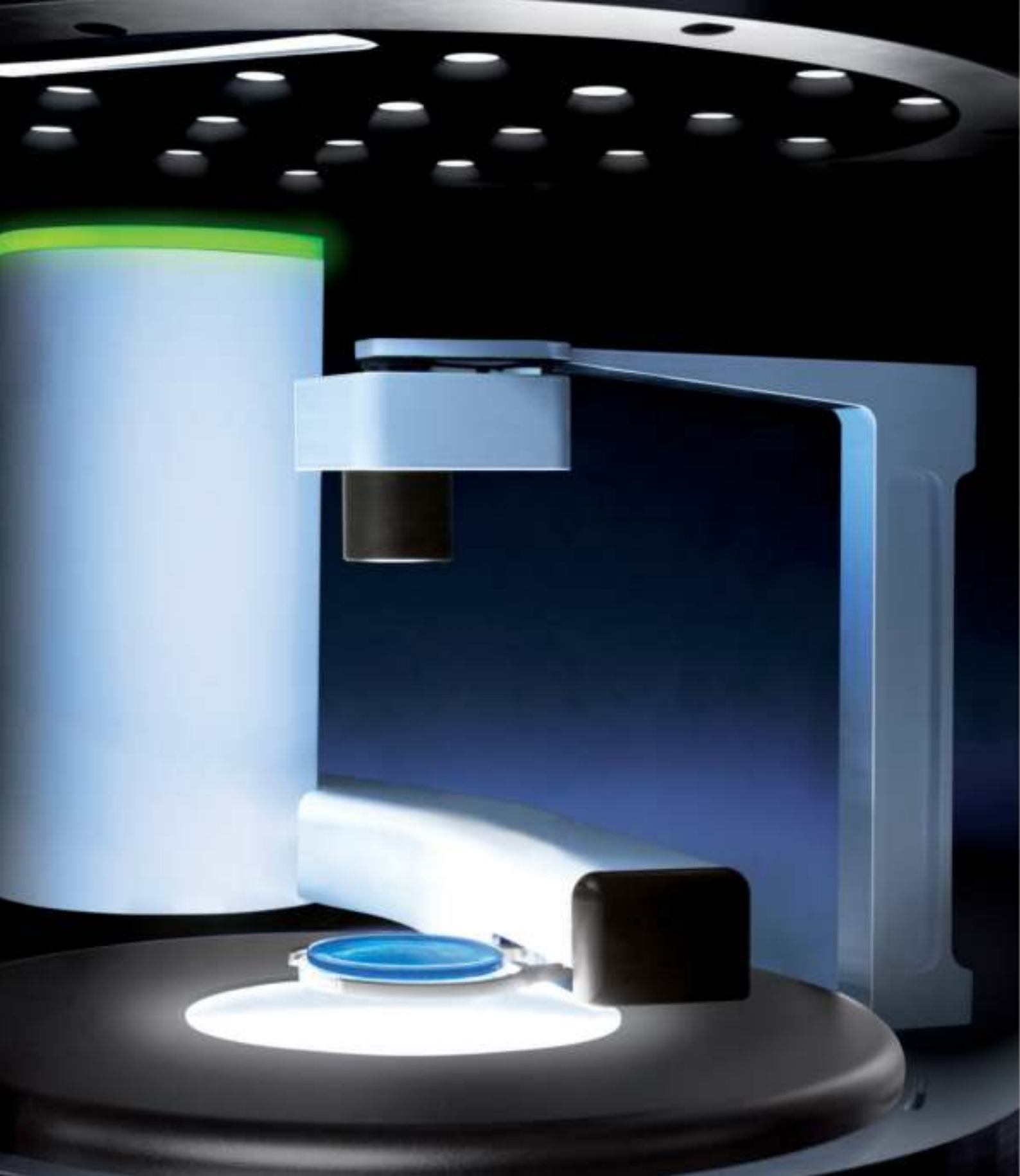
# ScanStation

Real-time incubator and colony counter

The real-time revolution!



interscience



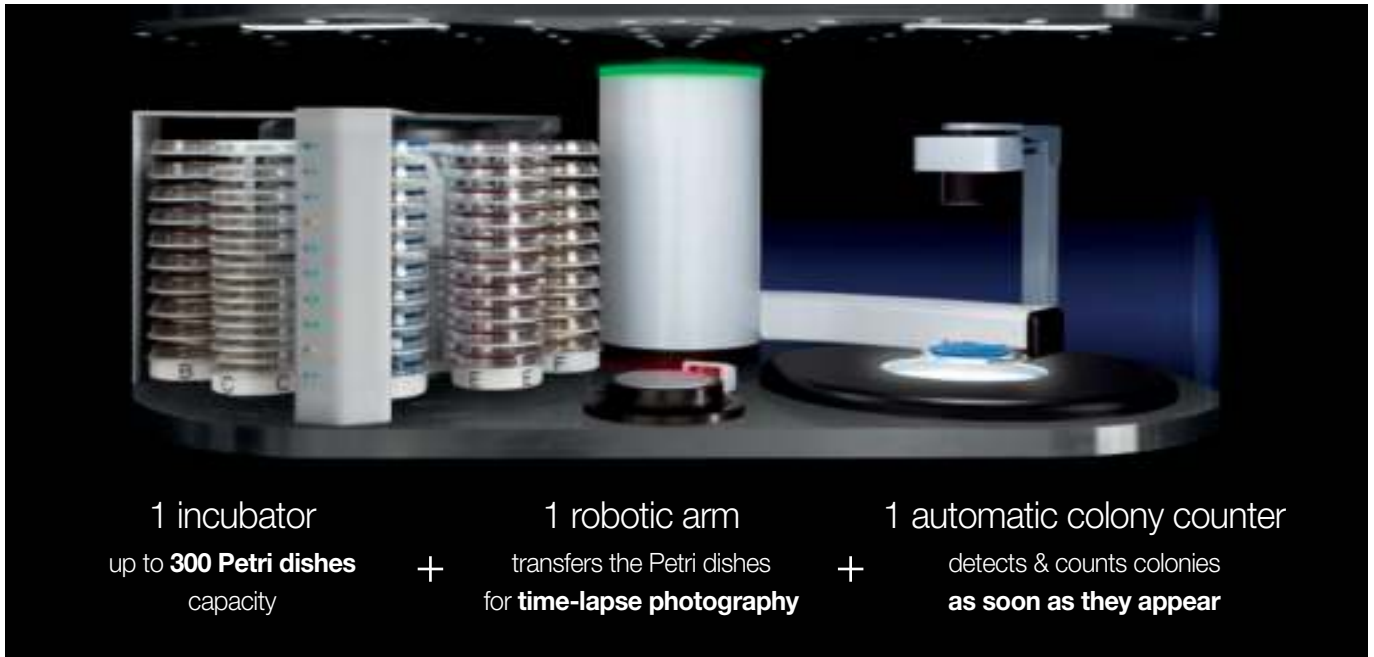
## interscience

- Over 40 years of microbiology expertise
- World leader in automatic colony counters
- Made in France in our R&D center & manufacturing plant

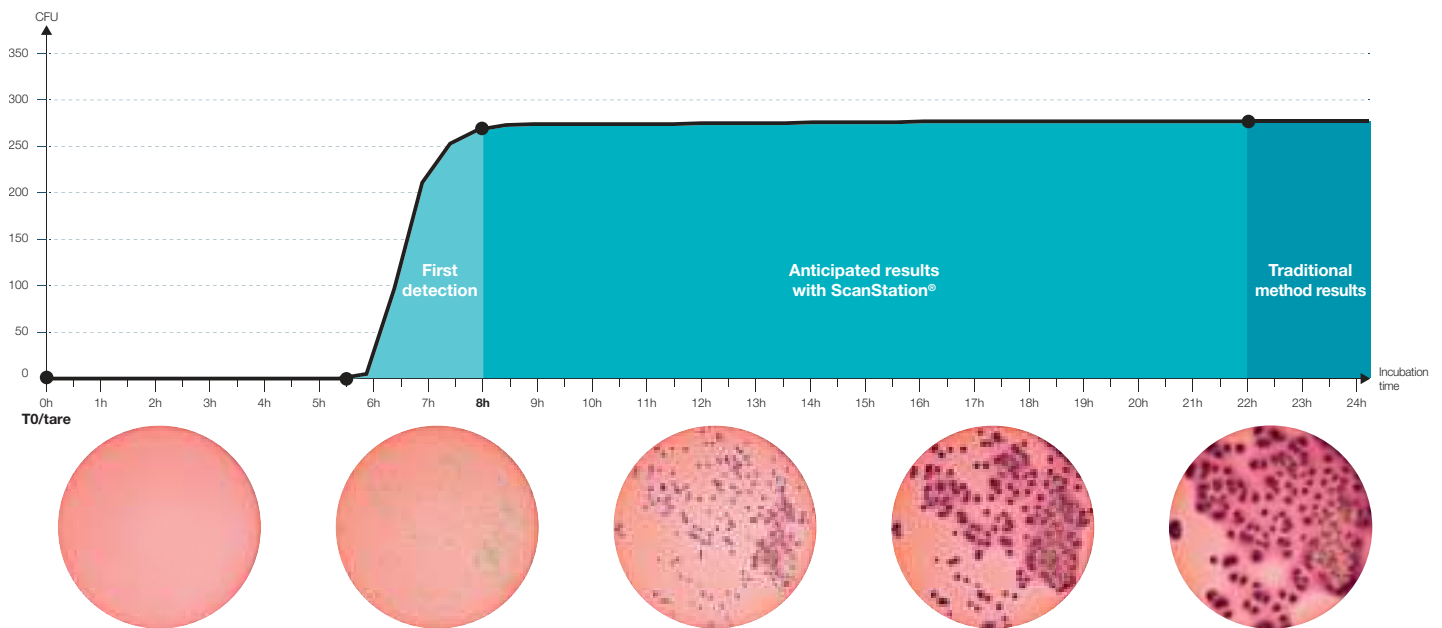
SCIENTIFIC  
EQUIPMENT  
MANUFACTURER

**MADE IN FRANCE**





ScanStation® is a real-time incubator and colony counting station centralizing **incubation, detection** and **counting of up to 300 Petri dishes** simultaneously. Petri dishes are counted every 30 min\* throughout the process. **Colonies are detected as soon as they appear.** E.g. below: *Coliforms* on VRBL agar incubated at 37 °C



Discover bacterial growth hour by hour and see the video during and after incubation. Data are archived and available throughout incubation up to final validation of the results in the following formats: **LIMS, mp4, pdf, jpeg, png, bmp and csv.**

**3x**  
sooner  
Results in  
8 h instead of 24 h

**faster**  
Up to 300 Petri dishes  
counted together

**accurate**  
Elimination  
of artefacts

**equal**  
Keep your agar  
& method

\* every 1 h for ScanStation® 300

**PATENTS PENDING**

Real-time bac

**Rotating Petri carousel**

Record-breaking capacity of 300 Petri dishes

**Insulated panoramic window**

Easy process monitoring

**Thermoregulated incubator**

Peltier module  $\pm 1\text{ }^{\circ}\text{C}$  refrigerated incubator  
No compressor

**Storage unit**

For computer, UPS, accessories

**Easy installation**

Simply plug in the 100-240V~ power cord.



# terial monitoring



## High speed robotic arm

Automated plate handling  
from incubation to counting



## Real-time bacterial growth

Touch screen with real-time video  
of the process  
24/7 operation

## Ultra-HD camera

Reflection free LED lighting  
5 megapixel sensor

## Pressure-sensitive gripper

Automatically adapts to right-side up  
or upside down Petri dishes  
No settings

## Bar-code reading

Automatically retrieves sample data  
Connectable with LIMS, dataLink™



# Key features



## Mono or multi-batch

The loading of Petri dishes can be done at the beginning or during the incubation, with different light or incubation duration settings.

For example, you can load 70 contact plates on day 1 for 5 days of incubation. On day 2, add 20 ø 90 mm Petri dishes for 2 days of incubation, and have several batches running together with different settings.

## Data integrity

ScanStation® is a breakthrough in data integrity: images and video of the bacterial growth are saved, from the start to the end of the incubation. You can recover the data beyond the incubation date.

The bacterial growth video helps validate the results by showing the distinction between a particle and a bacterium, avoiding false positives. Images taken at regular intervals make it possible to visualize the beginning of the growth of micro-organisms such as molds in order to facilitate counting.

ScanStation® software complies with FDA 21 CFR Part 11 guidelines. It allows electronic signatures, audit trails and encrypted data for security reasons. You can assign different to users rights depending on the access levels.



## dataLink™

The integrated bar-code reader can read most of 1D/2D barcodes on the market, including QR codes and datamatrix. For the pharma industry, prelabelled Petri dish from bioMérieux™, Merck Millipore™ and BD™ can be read to integrate the data from the sample, to gain productivity and security, when connected with a LIMS.

When used in combination with a Spiral® plater, interscience's dataLink™ system can also be used to transfer data from plating to ScanStation®. It avoids double data entry, which is source of error and time loss.

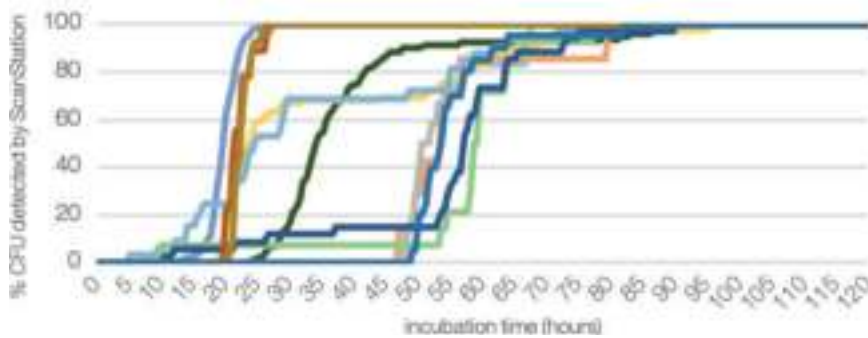
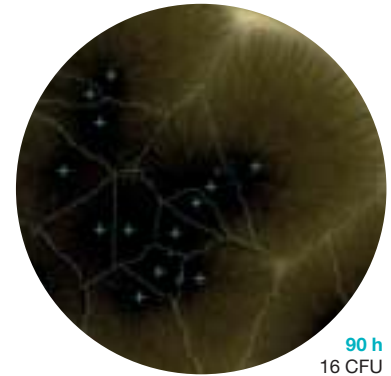
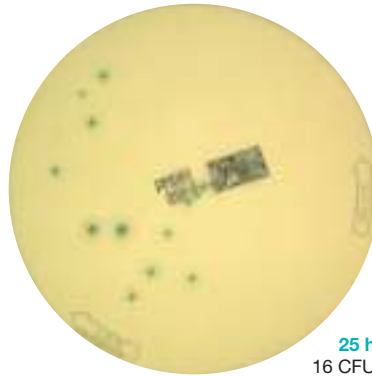
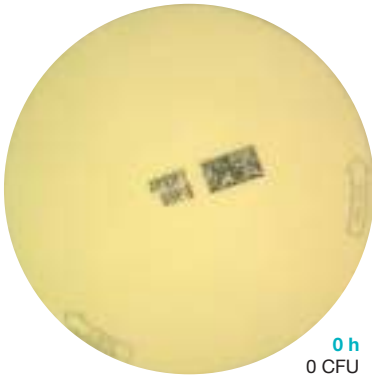


# Pharmaceutical

## Anticipated results and data integrity

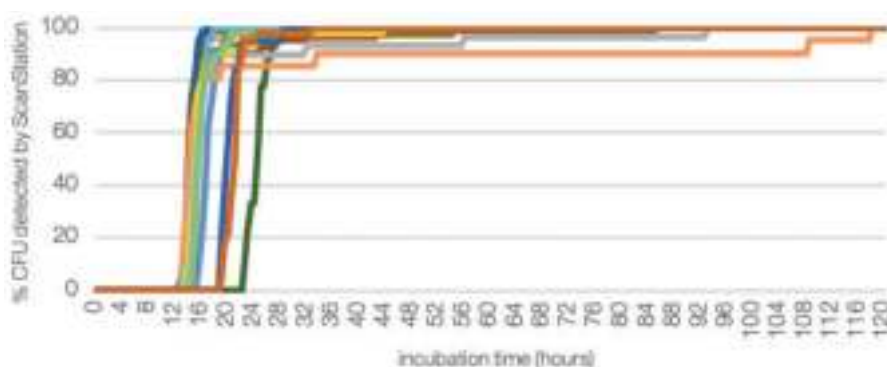
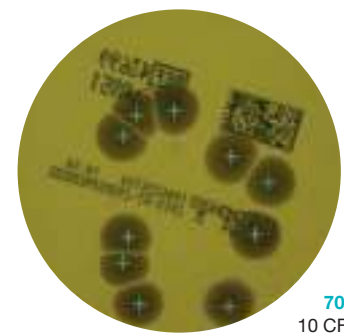
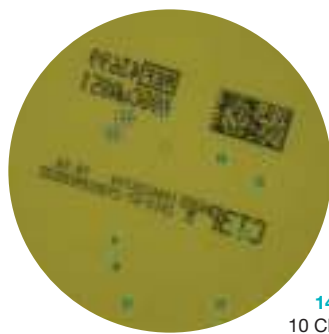
ScanStation® is used in pharmaceutical labs. It allows bacterial detection during incubation..

Protocol: Tests have been carried out in pharmaceutical laboratories in order to work on the early detection of the 5 germs of the pharmacopoeia. Different samples are compared to identify a "Time to result".



Time to result of 11 samples of *Aspergillus Brasiliensis*

- Average detection in 40 hours.
- 85% of the countings make a stable and reliable CFU result at 65 hours instead of 7 days.



Time to result of 19 samples of *Escherichia Coli* on contact plates

- Average detection in 16 h.
- 85 % of the countings make a stable and reliable CFU result at 25 hours instead of 5 to 7 days.

Application: Environmental monitoring of clean rooms, air and surface

- Anticipated results
- Data integrity by saving images of Petri dishes

\*Time to result : Average time of the anticipated results on several samples

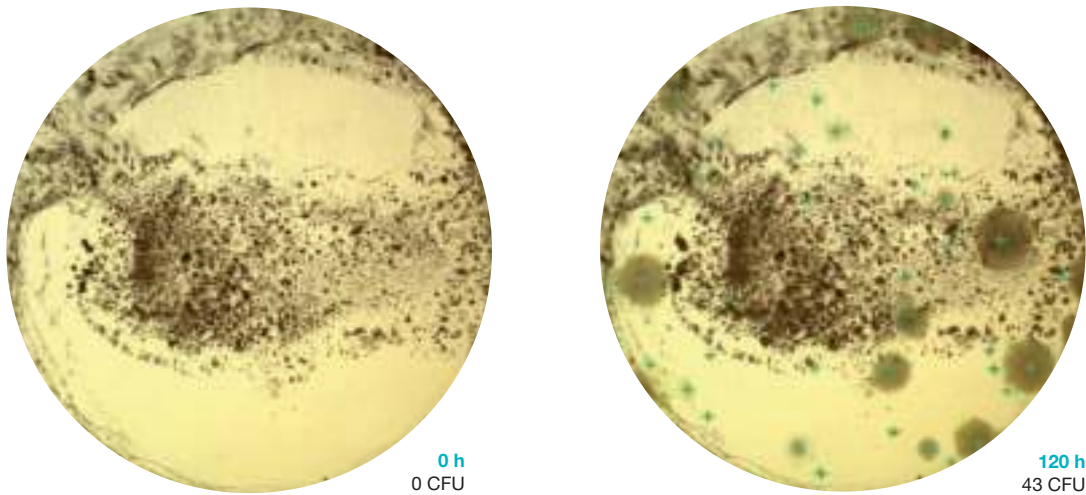


# Cosmetics

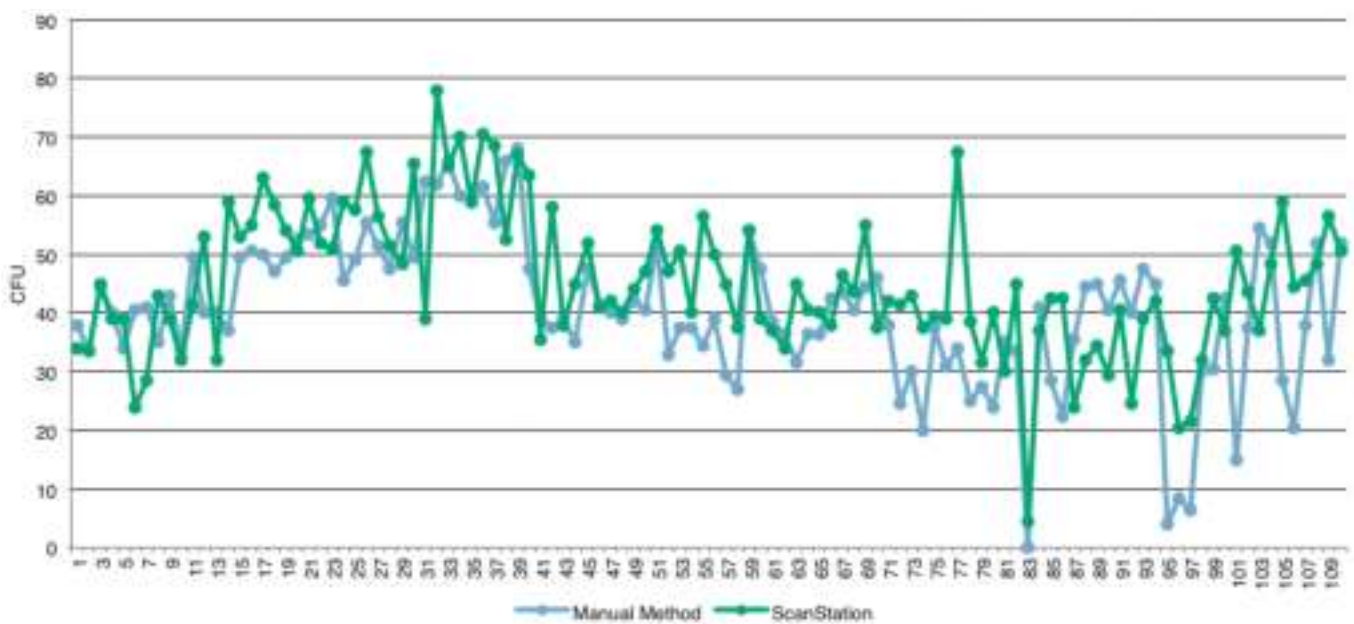
## Particles removed

ScanStation® is popular in cosmetics because it allows the removal of particles and matrix effects. Reading is therefore facilitated by the T0 image and real-time monitoring using photos taken at regular intervals isolating bacterial kinetics.

Protocol: Tests were conducted in cosmetic laboratories to evaluate the performance of the ScanStation®. A method comparison was performed on the 5 reference strains and according to the cosmetic reference system.



Reading comparison of *Escherichia Coli* between the manual method and the ScanStation®



The reading interpretation of *Escherichia Coli* demonstrates that 96.3% of the results are within a 0.3 log difference.

### Application:

Analysis of all cosmetic matrices

Challenge tests in R&D

Raw material quality control and finished product

- Anticipated results
- No significant difference between manual reading and reading with the ScanStation®
- Discriminate particles and colonies, and results closer to the true count (verified by growth video)





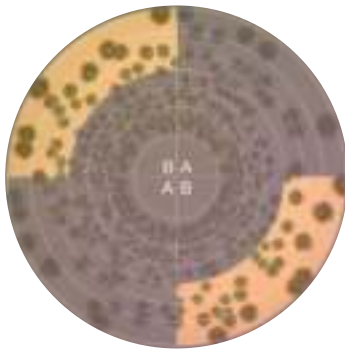
# Food

## Automation and better production management

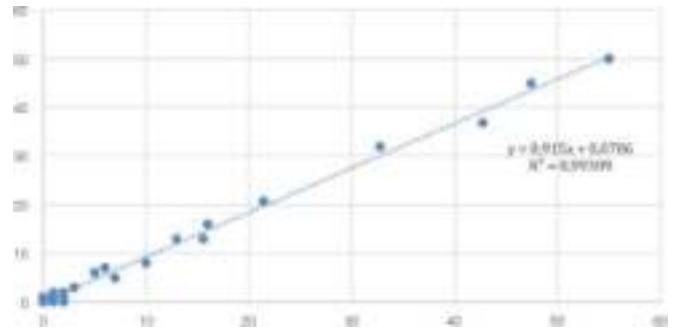
ScanStation® is appreciated in food laboratories. During incubation, the ScanStation® takes regular images of the Petri dish to isolate bacterial kinetics.

Protocol: Analyses were carried out in food laboratories specialized in dairy products. A method correlation was performed for this study.

ScanStation® counting on Spiral® plating



Manual/ScanStation® counting correlation graph



**Application:**

Manual method or Spiral® method  
 Quality indicators of all food samples  
 PCA, MRS, VRBL, TBX agar

■ **Anticipated results**

- **No significant difference between manual reading and reading with the ScanStation®**
- **Productivity by automation of colony counting**



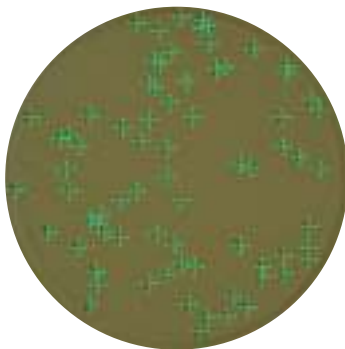
# Environment

## Anticipated results

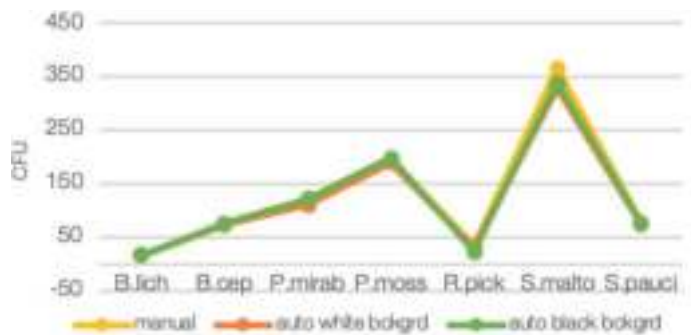
ScanStation® is popular for environmental analysis. During incubation, the ScanStation® takes regular images of the Petri dish to isolate bacterial kinetics. The associated video allows early detection and facilitates endpoint validation.

Protocol: A performance study was carried out on different filtration membranes (multiple brands and colors).

ScanStation® counting on polycarbonate filtration membrane



Count of 7 bacterial strains on white membrane without grid



**Application:**

Environment water  
 Drinking water

■ **Anticipated results**

- **No significant difference between manual reading and reading with the ScanStation®**

# 3 models



ScanStation® 100  
100 Petri dishes capacity  
Ref 439 100

ScanStation® 200  
200 Petri dishes capacity  
Ref 439 200

ScanStation® 300  
300 Petri dishes capacity  
Ref 439 300

# Accessories

**Stand for screen and keyboard**  
For great ergonomics

Ref 439 110

**Storage furniture**  
Storage of the computer and accessories

Ref 439 120

**Uninterrupted power supply**  
In case of power cut

Ref 439 140 (220V)  
Ref 439 145 (110V)

**Server**  
Increases performance and data storage

Ref 439 150

**Code reader**  
Bar-code reader (1D) and datamatrix reader (2D)

Ref 439 170

**21 CFR Part 11 module**  
Audit trail, validation of results and management of the software

Ref 800 700

**IQOQPQ**  
IQOQPQ document. For IQOQPQ service, please contact us.

ScanStation® 100 - Ref 800 251  
ScanStation® 200 - Ref 800 252  
ScanStation® 300 - Ref 800 253

**Disinfection unit**  
The nebulizer is placed inside the ScanStation® and disinfected with H<sub>2</sub>O<sub>2</sub> (to avoid cross contamination)

Nebulizer - Ref 439 060  
Stand for nebulizer - Ref 439 061  
Disinfectant for nebulizer - Ref 439 062

**Adaptor for Petri dishes x10**  
Ø 54 mm - Ref 439 022  
Ø 55 mm - Ref 439 023  
Ø 56 mm - Ref 439 024  
Ø 57 mm - Ref 439 025  
Ø 58 mm - Ref 439 026  
Ø 66 mm - Ref 439 034

**Adaptor for contact plate (Ø 65 mm) - Ref 439 040**  
Set of Adaptors - Ref 439 021

# Technical specifications



	ScanStation® 100	ScanStation® 200	ScanStation® 300
<b>Reference</b>	<b>439 100</b>	<b>439 200</b>	<b>439 300</b>
Capacity	100 Petri dishes	200 Petri dishes	300 Petri dishes
Reading time in between each dish	30 minutes or 1 hour		1 hour
Petri dish size	Ø 55-65 mm and Ø 90 mm, right side up or upside down		
Type of plating accepted	Pour plate, surface, Spiral®, filtration membrane		
<b>OVERVIEW</b>		Single or multi-batch	
Loading		5 megapixels	
Camera resolution		23 inch touch screen	
Interface		ScanStation® software	
Software		English, French, German, Spanish, Chinese, Japanese	
Languages		mp4 video, pdf, jpeg, png, bmp, csv et xls	
Data export		Play, zoom, pause, replay, during and after incubation	
Video player		PC Windows 10 desktop with Intel i7 processor	
Included computer system			
<b>THERMAL SPECIFICATIONS</b>		From 20 °C to 45 °C	
Incubation temperature		± 1 °C in 9 points of the incubator	
Accuracy of incubation temperature		Every minute	
Recording of the temperature		Peltier modules, compressor free	
Heating and cooling technology		From 18°C to 25°C	
External temperature		70 %	
Max external humidity temperature		10 days	
Max incubation time			
<b>SPECIFICATIONS</b>		✓	
LED internal light		✓	
Electronic locking door		✓	
Pressure sensitive gripper		✓	
Extra rigid mass aluminum platform		✓	
1 year warranty		✓	
<b>WEIGHT AND DIMENSIONS</b>			
External dimensions (w x d x h)	136 x 83 x 91 cm	136 x 83 x 122 cm	136 x 83 x 146 cm
External dimensions (handles dismantled - w x d x h)	136 x 79 x 91 cm	136 x 79 x 122 cm	136 x 79 x 146 cm
Height of the storage unit		62 cm	
Total height with storage unit	146 cm	177 cm	201 cm
Weight of the ScanStation®	277 kg	320 kg	355 kg
Weight of the storage furniture		70 kg	
Power		100-240V~ 50-60 Hz	
Max power		2000 watts	

## Demos and training welcome: please contact us!

Delivered with: 1 computer with pre-installed ScanStation® software, 1 touch-screen monitor, 1 wireless keyboard, 1 wireless mouse, user's manual, 1 maintenance kit.

## Certified production



Product made for INTERSCIENCE by Interlab, an ISO 9001 certified company.



ScanStation® 100

ScanStation® 200

ScanStation® 300



**INNOVATION  
AWARD WINNER**

FORUM LABO exhibition 2017



**GENERAL PUBLIC  
AWARD WINNER**

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**DESIGN OBSERVER  
LABEL**



**INNOVATIVE COMPANIES  
AWARD WINNER**

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