

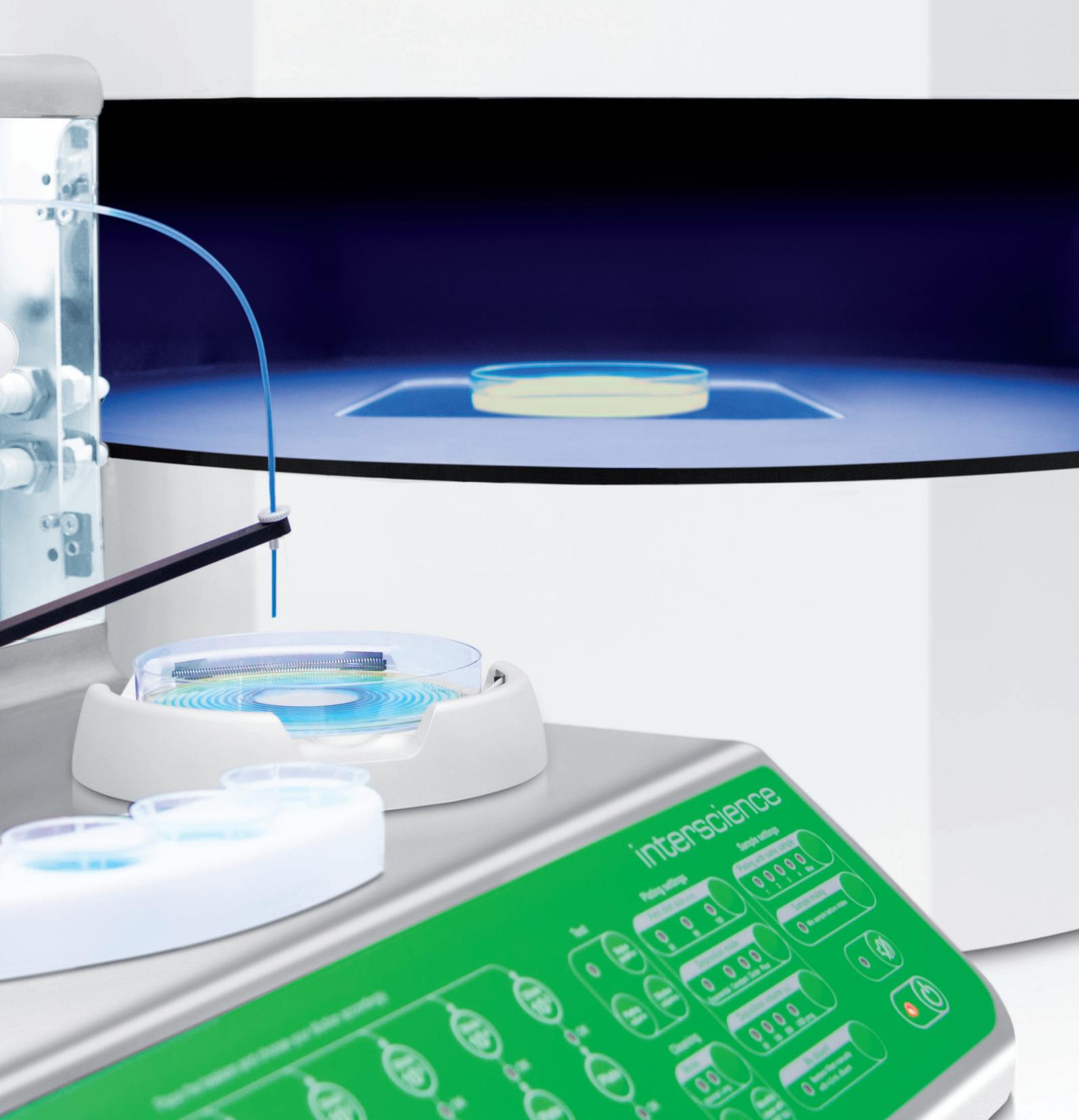
Plate & Count system[®]

Automatic bacterial enumeration



The winning team
from sample to result

interscience



interscience

- Designer and manufacturer since 40 years
- From sample prep' to microbiological analysis
- Immediate delivery around the world
- Designed and made in France



Fast bacterial enumeration with **Plate & Count** system®



The **Plate & Count** system® with **automatic diluting, plating and colony counting** are now the perfect solution when it comes to meeting efficiency and traceability requirements for microbiological analyses.

Boosting your lab work with top-of-the-line technology made in France, **easySpiral Dilute**® innovative automatic diluter and plater, **dataLink**™ traceability system and **Scan**® automatic colony counters, this fully automated system will guarantee your customers with fully extensive, traceable and reliable results.

- **75% time-saving and consumables savings**
- **Secured and traceable bacterial results**
- **Top-of-the-line technology made in France**

Why use **Plate & Count** system®?

Comparison for 150 samples between the manual and the automatic **Plate & Count** system® method.

Manual method	-	+	Automatic method
<p>Dilution</p> <ul style="list-style-type: none"> • 450 tubes • 450 pipet tips <p style="text-align: right; color: red;">4 h</p> <p>Plating</p> <ul style="list-style-type: none"> • 450 Petri dishes <p style="text-align: right; color: red;">+ 4 h</p> <p>Counting</p> <p style="text-align: right; color: red;">+ 6 h</p> <p>Total time</p> <div style="border: 2px solid red; padding: 5px; display: inline-block; color: red; font-weight: bold;">14 h</div>			<p>No manual dilution with automatic Spiral® method (see p6)</p> <p>Plating</p> <ul style="list-style-type: none"> • 150 small beakers • 150 Petri dishes <p style="text-align: right; color: green;">2 h</p> <p>Counting</p> <p style="text-align: right; color: green;">+ 2 h</p> <p>Total time</p> <div style="border: 2px solid green; padding: 5px; display: inline-block; color: green; font-weight: bold;">4 h</div>

Configure your **Plate & Count** system®

PLATE

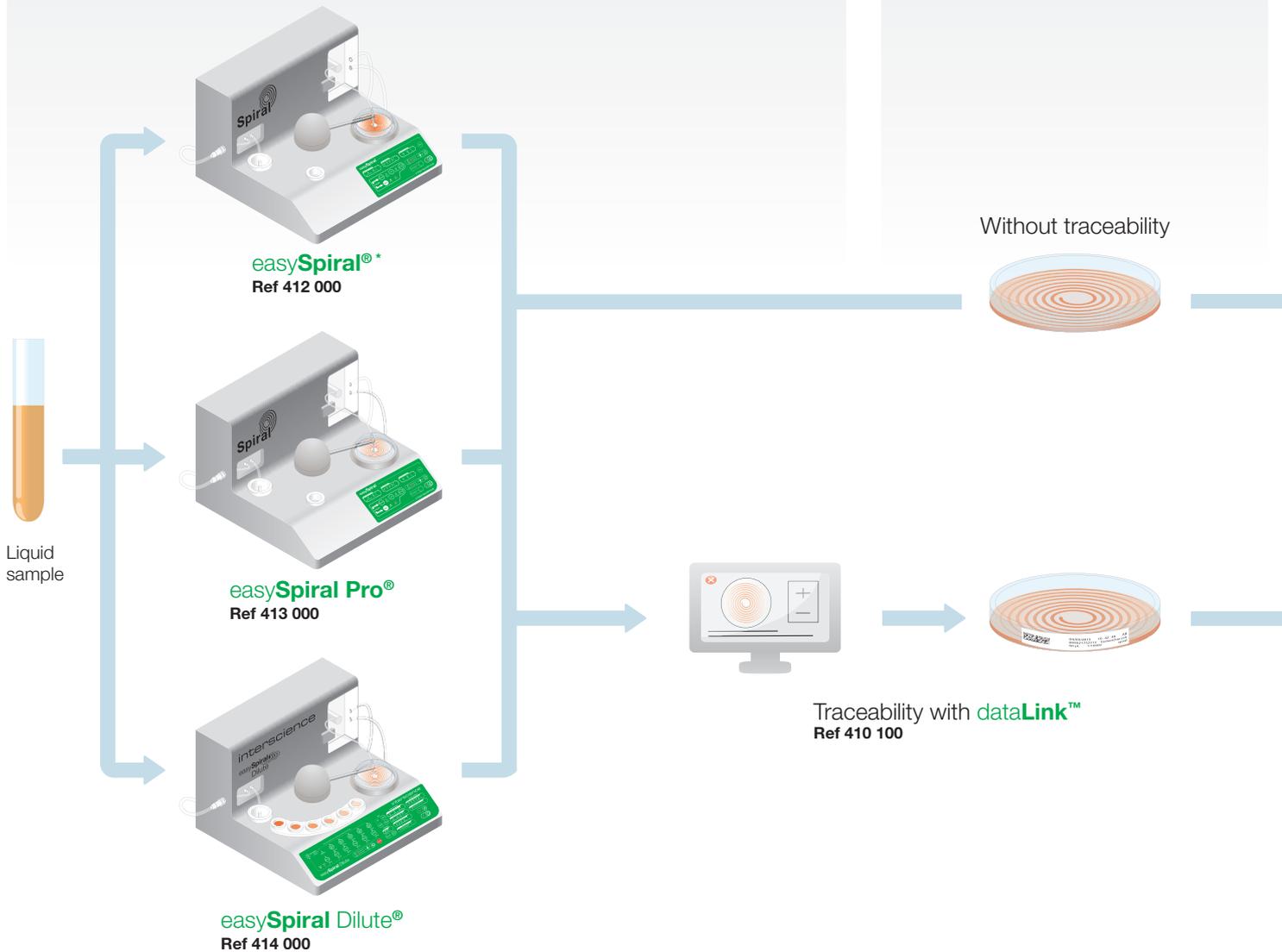


Automatic sample plating

TRACE



Data traceability



COMPLIANT WITH



* Without traceability

Certified production



COUNT

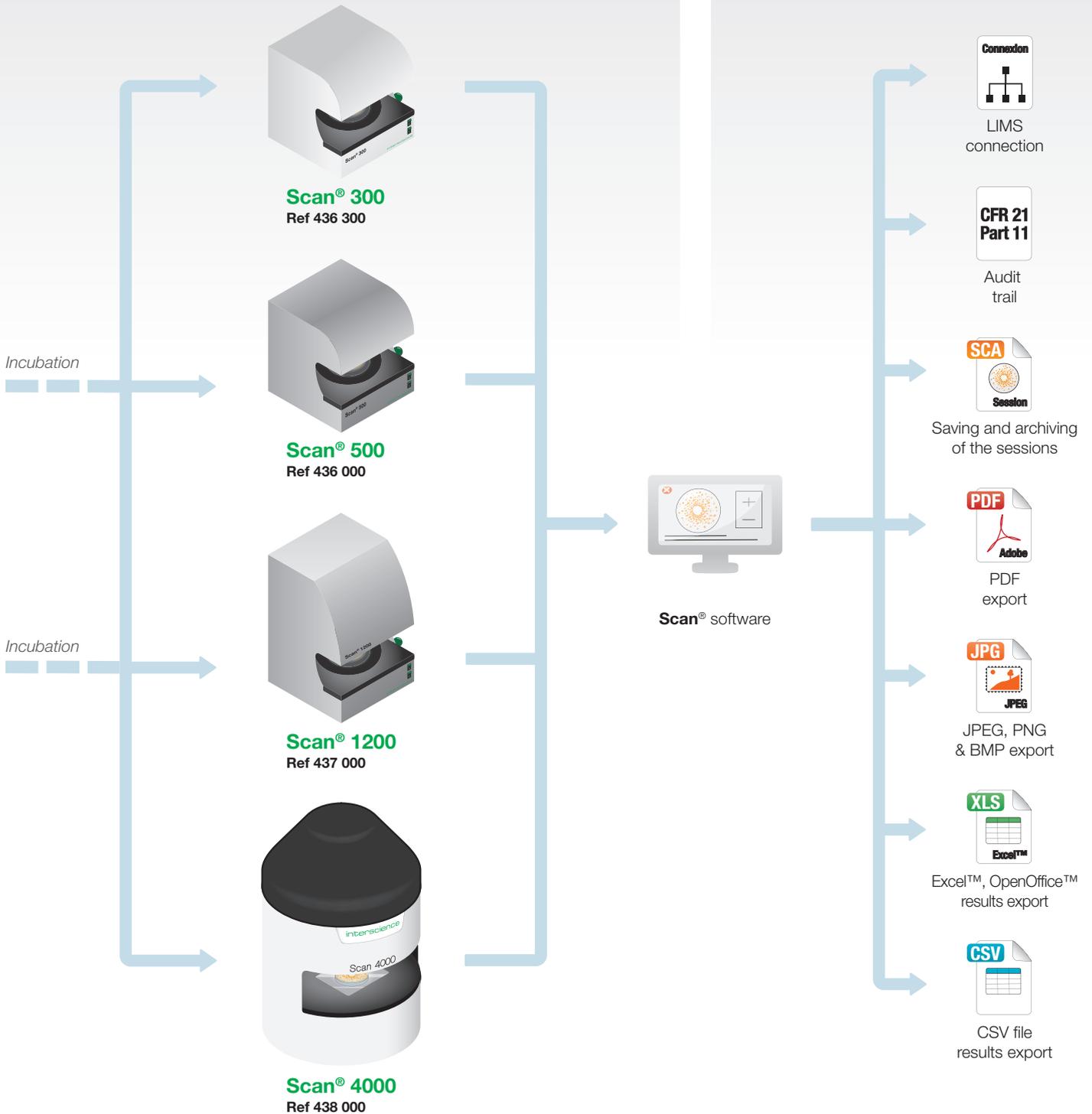


Automatic colony counting

RESULT



Automatic saving of counting data



What is **Spiral**® method?

With easy**Spiral**® automatic platers, increase your lab capacity with a **counting range from 100 to 1×10^7 CFU/mL** on **1 single Petri dish** without prior dilution.

Manual plating method

-

This method requires repetitive actions: at least 4 dilutions and 4 successive platings are necessary to obtain one good and readable Petri dish.

CFU > 300: not readable

OK

CFU < 10: not readable

Automatic spiral® method

+

With this method, make your analyses on **1 single Petri dish!**

- From **100 to 1×10^7 CFU/mL** on 1 single Petri dish
- Up to **75% less consumables**
- Full plating cycle in **25 seconds!**

OK

Automatic plating mode

	Constant	Exponential	Circle	Pour
	Homogeneous surface deposition 50 μ L, 100 μ L, 200 μ L and USB programmable	Decreasing surface concentration 50 μ L, 100 μ L, 200 μ L and USB programmable	3 or 6 surface dilutions on 1 Petri dish 10 μ L inner circle, 16 μ L middle circle and 25 μ L outer circle	Homogeneous deposition* in pour plate mode* 50 μ L, 100 μ L, 200 μ L and USB programmable
Examples:				
Before incubation	Homogeneous surface deposition	+ concentrated - concentrated	10^{-1} 10^{-2} 10^{-3}	Homogeneous deposition in pour plate mode*
After incubation				
	Easy colony counting: No colonies on the edge of the Petri dish	Counting range from 100 to 1×10^7 CFU/mL	Savings on Petri dishes	Easy colony counting for invasive colonies. Pharmacopoeia compliant

* In pour mode, easy**Spiral** Dilute® deposits one sample drop at the bottom of an empty Petri dish. Then, the user adds the molten agar on top and homogenizes it with the sample.

Choose your automatic plater

easySpiral® range



easySpiral®

Offers optimum features for easy Spiral® plating with excellent accuracy.

Counting range from:
300 to 1.3x10⁵ CFU/mL

easySpiral Pro®

Exceptional efficiency including 3 plating modes, programmable volumes via USB.

Counting range from:
100 to 1x10⁷ CFU/mL

easySpiral Dilute®

Top-of-the-line technology for automatic diluting and plating. 5 x serial 1/10th dilutions and automatic plating.

Counting range from:
30 to 1x10¹² CFU/mL

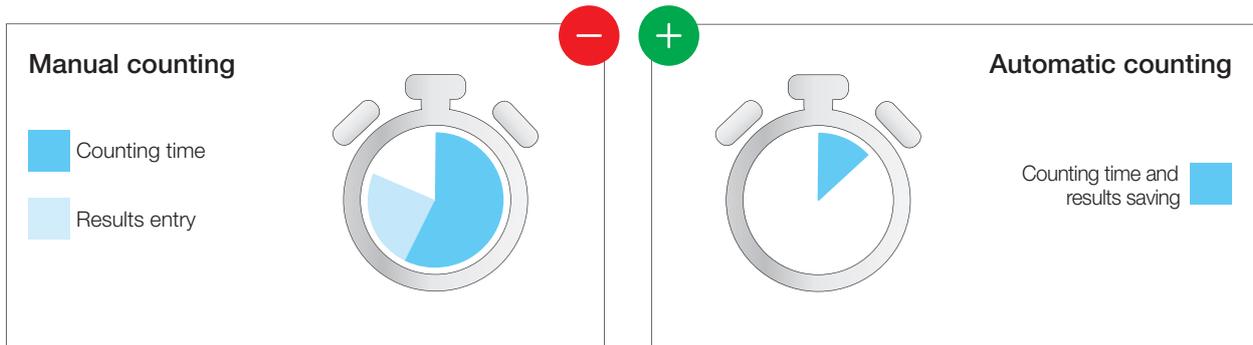
	Reference	412 000	413 000	414 000
Top features	Overflow stylus disinfection system (patented)	✓	✓	✓
	Traceability	-	✓	✓
	Dilution mode (patented)	-	-	✓

Plating modes		Exponential plating mode	✓	✓	✓
		Circle plating mode (patented)	✓	✓	✓
		Constant plating mode	-	✓	✓
		Pour plating mode	-	-	✓

Petri dish size		90 mm Petri dishes	✓	✓	✓
		150 mm Petri dishes	-	✓	✓
		55 mm Petri dishes	-	-	✓

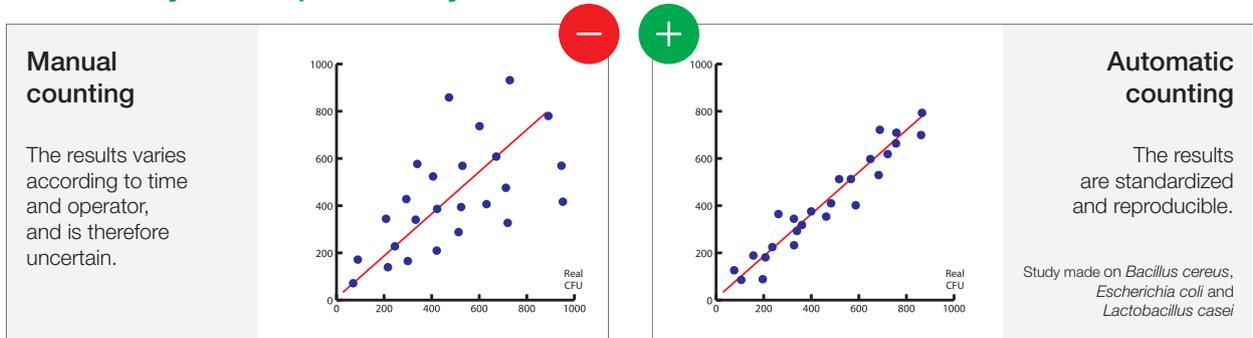
Why use a colony counter?

1 Productivity



If you count at least 50 Petri dishes per day, with the Scan[®] you can reduce the reading time up to 80% as it counts up to **1000 colonies in 1 second**.

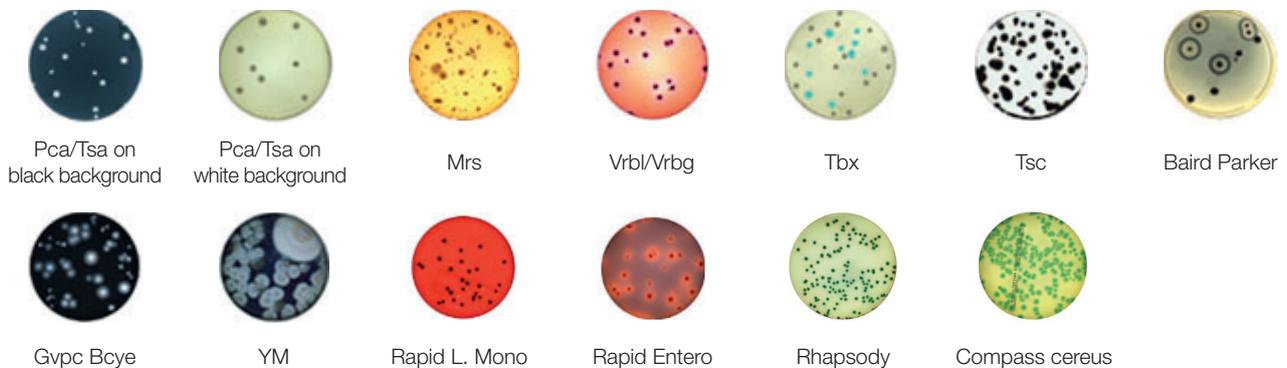
2 Accuracy and repeatability



The manual counting of colonies on Petri dishes is long and painstaking and may vary in the beginning and the end of a single day, according to the operator. The Scan[®] count with **up to 98% accuracy** in a **constant and repeatable way**.

3. No settings needed

Choose your pre-set parameters for Petri dishes:



Also available on Scan[®] 1200 and Scan[®] 4000:

- MC-Media Pads[™]: AC, CC, EC/CC, SA
- Petrifilm[™]: AC, ETB, CC, EC/CC, EC
- Compact Dry[™]: TC, CF, EC, ETB
- Easy Plate[™]

Choose your colony counter

Scan® range



Scan® 300

Best value for money

Minimum colony size: 0.1 mm

Scan® 500

The reference for daily analyses

Minimum colony size: 0.1 mm

Scan® 1200

High performance levels on a wide range of media

Minimum colony size: 0.05 mm

Scan® 4000

Top-of-the-line technology with HD camera and unique lighting features

Minimum colony size: 0.05 mm

	Reference	436 300	436 000	437 000	438 000
Top features	LED lighting	✓	✓	✓	✓
	HD camera (megapixel)	✓	✓	✓	✓
	High sensitivity sensor (CCD)	-	-	✓	✓
	Ultra HD camera (5 megapixels)	-	-	-	✓
	White LED Dome lighting	-	-	-	✓
Colony counting	Pour and surface mode	✓	✓	✓	✓
	Spiral® mode	✓	✓	✓	✓
	Chromogenic agar	-	✓	✓	✓
	Petrifilm™ Compact Dry™ MC-Media Pads™ Easy Plate™	-	-	✓	✓
	Filtration membrane	-	-	✓	✓
	Round Petri dishes up to ø 150 mm	-	-	-	✓
Inhibition zone	90 mm round Petri dishes	-	✓	✓	✓
	120 mm square Petri dishes	-	-	-	✓

Complete with dataLink™

All the sample data, from automatic plating (volume, dilution, plating mode...) to automatic colony counting (lighting settings) are recorded on the Datamatrix label.

How does it work?



STEP 1

Plate with easy**Spiral Pro**® or easy**Spiral Dilute**®. easy**Spiral**® software collects the plating data.



STEP 2

Print the label with Datamatrix. Stick the label on the plated Petri dish and place in the incubator.

... 24-72 h incubation



STEP 3

Once the colonies have grown, scan the Datamatrix. The **Scan**® colony counter automatically adjusts its settings thanks to the Datamatrix label's data. Click on "COUNT". Export the data.

* Please check LIMS compatibility

Label model



Label dimensions: 45 x 10 mm

dataLink™ pack:



Ref 410 100

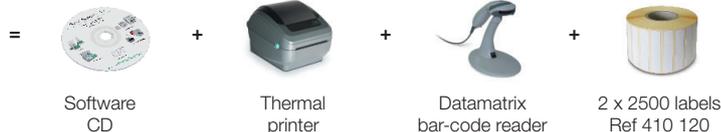
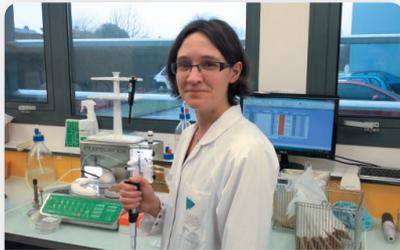


Plate & Count system® in labs



ACTALIA

COFRAC accredited lab, quality expert for dairy companies.

Number of analyses: 600/day

Work with: DiluFlow®, BagMixer®, easySpiral Dilute®, Scan® 1200

easySpiral Dilute® + Scan® 1200: 2 hours of analysis time saved each day 55

Why did you feel the need for an automatic plater?

We need a device that can give us more than a classic spiral plater, especially with the innovations of the circle mode plating and the automatic dilution.

How has easySpiral Dilute® changed your work?

The easySpiral Dilute® has allowed

a smoother workflow and technical time, even though we already have an automatic plater. Combining it with the Scan® 1200 automatic colony counter is extremely useful; we save over 2 hours of analysis per day. We particularly like its regularity, the start-up speed and the robustness of the stainless steel housing. Automatic dilution is very precise and economical. The device has allowed us to anticipate the normative developments.



BIOSE

Producer of microbiotic therapeutic ranges for human health.

Number of analyses: 100/week

Work with: easySpiral Dilute®, Scan® 1200, dataLink™

dataLink™: to gain repeatability and traceability 55

Why did you feel the need for an automatic plater?

We were looking for a device which could do a similar job to lab technicians, for more repeatable counting but also to save time.

How has easySpiral Dilute® changed your work?

It allows us to save time; while it is running, the technicians can anti-

cipate the preparation of the samples to come. Automatic diluting, plating and label printing simplify our work. With the automatic saving of all the information on the computer, it optimizes repeatability and traceability of the analyses.

We had the opportunity to test Plate & Count system® before purchase and it reinforced our decision. It was also helpful to have the Customer Support to answer our questions.



MOULIN DE LA MARCHÉ

Producer of smoked fish for the retail group Intermarché.

Number of analyses: 10 000/year

Work with: easySpiral Dilute®, Scan® 1200, dataLink™

24 000 € per year saved on consumables 55

Why did you feel the need for an automatic plater?

We analyze about 9500 samples per year on which we count mesophilic flora at 30°C. We wanted to save on consumables.

How has easySpiral Dilute® changed your work?

The easySpiral Dilute® and the Scan® 1200 allows us to save

24000 € per year on consumables, compared to the film growing method that we used before buying these devices, and only for the analyses of the mesophilic flora at 30°C. Within 10 months, we recovered our investment. With the easySpiral Dilute® we can save money and time for subculturing. The Scan® 1200 has allowed us to save valuable time on Petri dish reading.



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