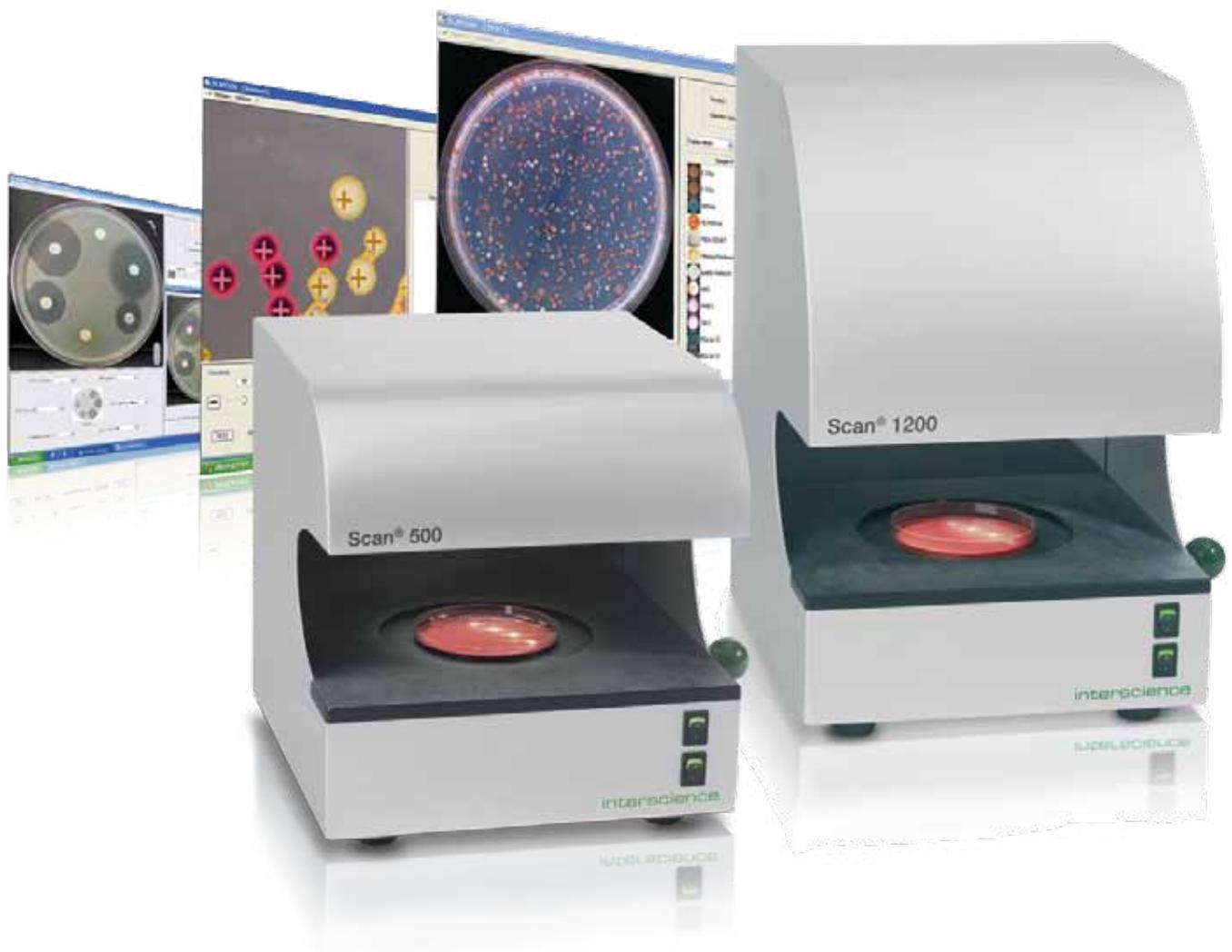


interscience



Scan[®] colony counters

Automatic colony counters
Inhibition zone readers



interscience

Our quality for your lab

- Designer and manufacturer for microbiological analyses: from sample preparation to bacterial enumeration
- Made in France
- R&D leadership with innovative & reliable products
- 24/7 technical support
- Worldwide distribution network, immediate delivery

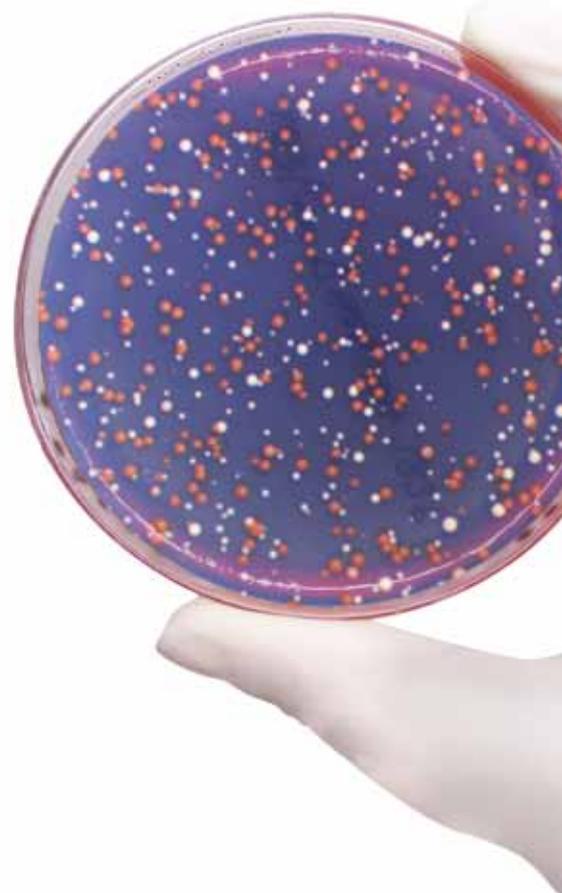
Scan[®] colony counters

High quality analyses, full traceability

Scan[®] 300, Scan[®] 500 & Scan[®] 1200

High technology automatic colony counters

With a digital camera and high technology software, they can be linked to a PC via a FireWire connection. They count all colonies on a Petri dish in less than 1 second and provide a complete, fast, accurate and traceable reading of the result.



■ Bacterial enumeration

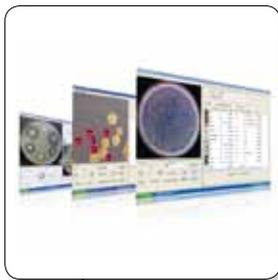
- **Food analyses**
- **Total flora analyses:** bacterial enumeration, aerobic & anaerobic, yeasts, lactobacillus...
- **Pathogenic bacteria research**
- **Environmental research**
- **Pharmaceutical analyses**
- **Medical analyses**
- **Cosmetics analyses**

■ Inhibition zones

- **Pharmaceutical industry, medical research & hospitals**
(antibiograms, resistance tests to pathogenic microbes, medical diagnoses...)
- **Food industry**
(Tests on lactic ferments & for dairy ingredients industry...)

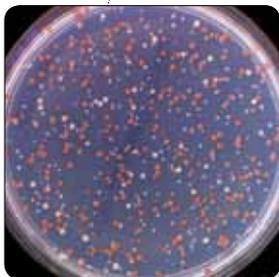
Scan[®] colony counters

- Automatic colony counters
- Inhibition zone readers*
- Data traceability and full report



High performance

- > Count colonies of numerous media
- > Read chromogenic Petri dishes*: Colored differentiation of colonies (up to 7 different colors on the same dish)
- > Inhibition zone measurement



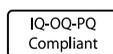
Live image

- > Fits any type of dish: automatic adjustment of contrast and lighting
- > High-definition color image
- > Each colony is marked with a cross
- > Powerful zoom: up to x28 for **Scan[®] 1200**

Sample N°	Count	Dilution
E COLI	174	1 2
E COLI	353	1 5
SPIRAL	47	1/1000
PETRIFILM	89	1 8
RIDA COUNT	179	1 1
Filting Membrane	111	1 1

Instant results

- > >1000 colonies detected in 1 second
- > Counts 30 dishes in 5 minutes (in real condition with presetting)
- > Reproducible and standardized results
- > **Scan[®]** results: instant and automatic



* on Scan[®] 500 & Scan[®] 1200

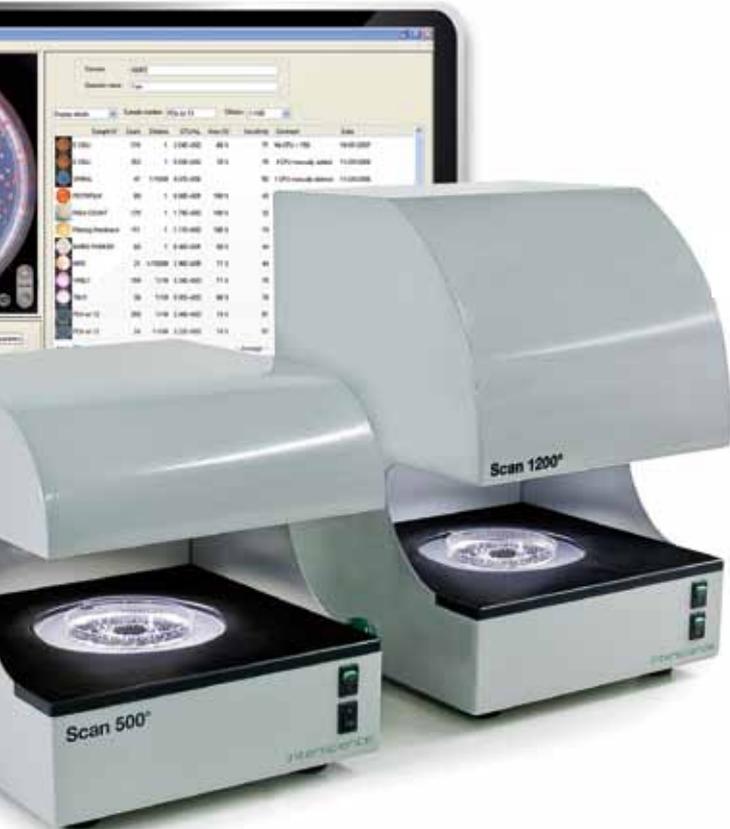


DOWNLOAD
SCAN® SOFTWARE

www.interscience.fr

Easy-to-use

- Counting in 1 click <
- All functions in 1 single window <
- Custom parameters: day, users, project... <



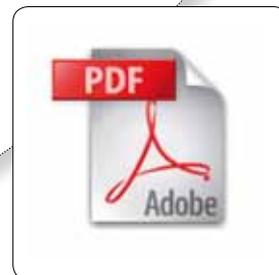
Dark Field technology

- Display of every colony <
- Optimized lighting & contrast <
- Long lasting LED lighting <
- 6 lighting combinations <



Traceability & reporting

- Automatic archiving and printing of data: <
pictures, comments & results
- Export to EXCEL™, PDF, JPEG, BMP <
- Barcode reader <
- Connection to LIMS network <

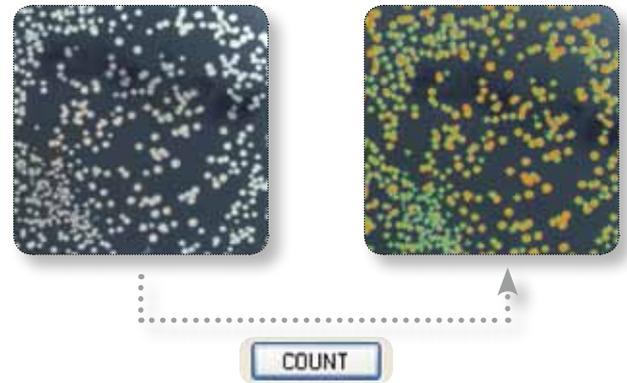


* Free update of the software during guarantee period

Efficiency & time saving

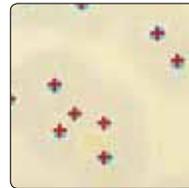
Instant results

Thanks to the live image display of the Petri dish on your computer, count more than **1000 CFU/sec.** on all media. Each counted colony is marked with a cross and the result is automatically saved.

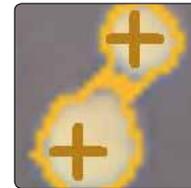


High-performance colony counters

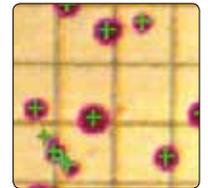
Scan® works for every kind of colony. The minimum size is **0.05 mm for Scan® 1200** and **0.1 mm for Scan® 300** and **Scan® 500**. **Scan®** colony counter automatically separates confluent colonies, allows you to create polygonal exclusion areas and ignores agar flaws and air bubbles. You can also add or remove colonies manually. Every change is automatically saved in your report.



Scan® read all the colonies, even the smallest



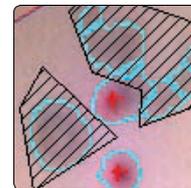
Automatic separation of confluent colonies



Automatic elimination of counting grids



Cross on each counted colony



Polygonal exclusion areas

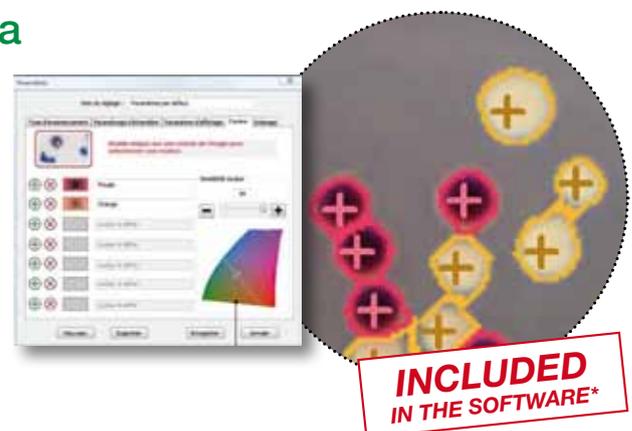


Automated software with manual control

Color detection & chromogenic media

Scan® 500 and **Scan® 1200** can read chromogenic agar and differentiate colonies by color: **up to 7 different colors on the same Petri dish**. Color selection can be made directly from the color of the bacteria and a cursor allows you to set the sensitivity.

Chromogenic media reading allows the detection of Salmonella on XLD media and E.Coli on TBX media, for example.



* on Scan® 500 & Scan® 1200

Scan[®] : 3 models adapted to your needs

Scan[®] 300 Essential

- CCD color camera (640 x 480 pixels)
- Digital zoom x7
- Minimum size of colonies: **0.1 mm**
- Counts Petri dishes (55-90 mm) and Spiral[®] plating

Count these supports



Petri Dish



Spiral[®] plating



ref 436 300

Scan[®] 500 Efficient

- CCD color camera (640 x 480 pixels)
- Digital zoom x7
- Minimum size of colonies: **0.1 mm**
- Color detection: up to 7 colors on the same Petri dish
- Counts Petri dishes (55-90 mm) and Spiral[®] plating
- Measurement of inhibition zone and agar well

Count these supports



Petri Dish



Spiral[®] plating



Chromogenic
Petri Dish



Inhibition
zone



ref 436 000

Scan[®] 1200 High-Resolution

- HD CCD color camera (1280 x 960 pixels)
- Digital zoom x28
- Minimum size of colonies: **0.05 mm**
- Color detection: up to 7 colors on the same Petri dish
- Counts Petri dishes (55-90 mm) and Spiral[®] plating
- Measurement of inhibition zone and agar well
- Counts Petrifilm[™], RIDA[™] Count/Sanita-kun[™], Compact Dry[™] and Filtration membrane

Count these supports



Petri Dish



Spiral[®] plating



Chromogenic
Petri Dish



Inhibition
zone



Petrifilm[™]



Compact Dry[™]



RIDA[™] Count
Sanita-kun[™]



Filtration
membrane



ref 437 000

Inhibition zone & Agar well

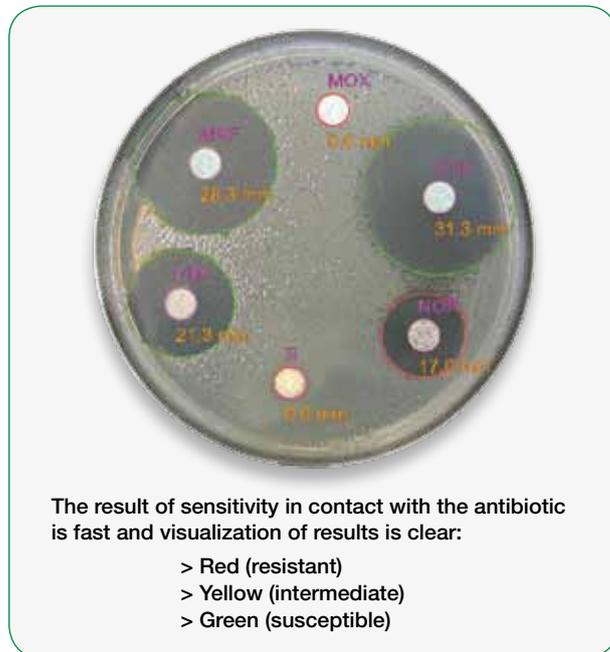
**INCLUDED
IN THE SOFTWARE***

Performance and flexibility

Scan® 500 and **Scan® 1200** allow efficient work flow because you can create and edit a list of antibiotics, useful for routine analysis.

Measured by **Scan®**, inhibition zones and agar wells guarantee repeatability and reproducibility of analysis and diagnosis reliability.

- Rapid detection: up to 8 antibiotic sensitivities in 1 click.
- Inhibition zones and agar wells may be manually added or deleted.



The result of sensitivity in contact with the antibiotic is fast and visualization of results is clear:

- > Red (resistant)
- > Yellow (intermediate)
- > Green (susceptible)

Medical analysis

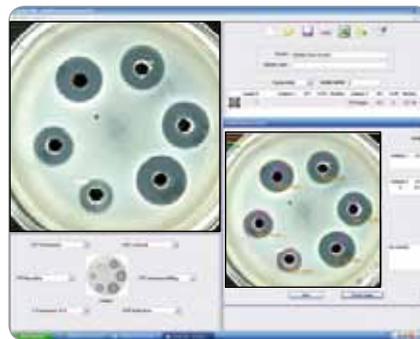
Inhibition zone measurement allows you to test the efficiency of antibiotics on micro-organisms to accelerate the diagnosis in order to choose precisely an appropriate antibiotic treatment for a patient. **Scan®** has a built-in antibiotic database from the **French Society of Microbiology (CA-SFM)** which determines the sensitivity of the bacteria to the antibiotic. This database is fully editable.



Precision of inhibition zone measurement:
0.1mm

Pharmaceutical analysis

In the pharmaceutical industry, **Scan®** allows you to test the quality of an antibiotic during its manufacturing process by measuring the inhibition zones. The agar well measurement allows you to evaluate the action of an antibiotic.



Precision of agar well measurement:
0.1mm

CFR 21
part 11

GLP
GOOD LABORATORY PRACTICE

* on Scan® 500 & Scan® 1200

Comfort of use

> High definition live image

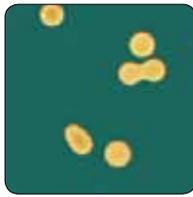
This feature enables total control of colony counting.

Optimum visualization

Enjoy comfortable viewing of the colonies with the unequalled **Dark Field technology** (double oblique tangent and crossed light), high definition live image and with the automatic optimization of the image (lighting, contrast and sensitivity). You can also check key areas thanks to the digital zoom.



Dark Field: LED are disposed in a circle for optimal contrast



Scan® automatically optimizes contrast, luminosity and sensitivity



Digital zoom with the mouse wheel (up to x28)

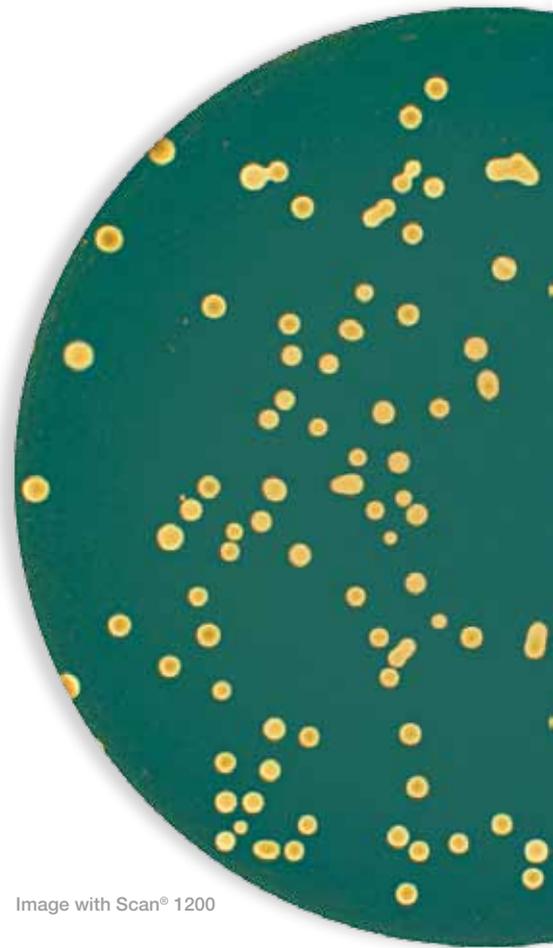


Image with Scan® 1200

Easy-to-use

All **Scan®** functions are in **one single window** and colonies are counted in one click.

The **Scan®** easy commands (visualization, settings and results) allow quick access to both ongoing and archived work sessions.

Scan® software is available in **5 languages** (English, French, Chinese, Russian and Japanese) and is updated regularly. The intuitive use of **Scan®** **does not require any special training.**



Fast communication, total traceability

Results harmonization

Using the **Scan**[®] allows more reliable analyses and harmonizes the results within a team.

You can save as many settings as you wish and customize the settings according to the type of dishes and agar you use.

The automatic archiving of data, photos, comments and results ensures total traceability.

Print your results

You can export a report to your PC, archive it in PDF, JPEG, BMP... You can also print it as 1 full page report for your customers or suppliers.



Printed report example

Analysis result

Sample information

Comments

Add your own logo in the reports

Petri dish before counting

Petri dish after counting

The screenshot shows a printed report with the following elements:

- Logo:** A vertical logo for 'interscience' on the left side.
- Petri Dish Images:** Two circular images of petri dishes. The left one is labeled 'Sample' and shows a blue agar surface with many small white colonies. The right one is labeled 'Sample analysed with SCAN 1200®' and shows the same agar surface with colonies highlighted in green and orange. A small red box in the top right corner of the second image contains the text '38.8 mm'.
- Analysis Data Table:**

Sample N°:	1	Count:	915	Dilution:	1/10	CFU/mL:	1.14E+004
Parameters:	GL Lyon	Area (%):	81 %	Sensitivity:	37		
Date Time:	15/05/2009 15:47:28						
- Comments:** A text box containing the comment: '.1 CFU added manually --'.

> External traceability

Scan[®] software provides numerous possibilities to easily and quickly export your results.



Work sessions saving



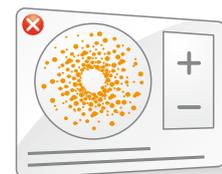
PDF export



JPEG & BMP formats export



Export results to Excel[™] for ensure traceability

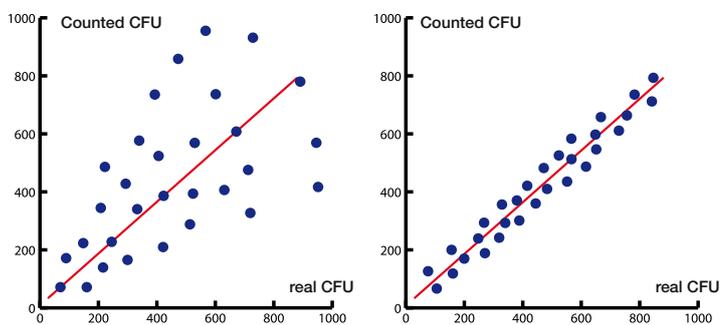


Print report from Scan[®]

Reproducibility of results

Automatic counting is a guarantee of **regularity and standardization** of analyses, which is the key to ensure accurate and reliable results. **Reproducibility** of results is guaranteed whatever the day, conditions and user.

A scientific study has proved 98% precision for **Scan**[®] colony counters. This study is available on request.



Manual counting:

Random results over time and different users by manual counting of colonies

Automatic counting:

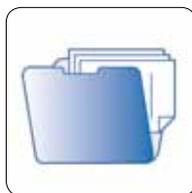
Standardized and reproducible results by automatic counting

Internal traceability

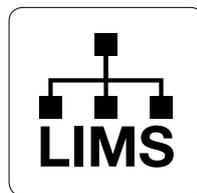
Thanks to the **LIMS** connection and the barcode reader, photos of counted plates are **saved and traceable**. The images are accessible and recountable at any time.



Barcode



Archiving



LIMS connection

Secure your sessions

Sessions are secured with a **security code** (one per operator) and the impossibility to alter each saved counting. **Scan**[®] use allows the compliance with **CFR 21 part 11**: system securization, operational controls and documentation management.



Plate & Count[®]

Plate & Count[®] system, offers you quick, accurate and fully traceable results with the automatic plating and colony counting.

It includes:

- **easySpiral[®]**: Automatic Spiral platers
- **Scan[®]**: Automatic colony counters

Plate and count your Petri dishes: up to 75% savings

Once the Spiral plated dish is out of the incubator, it is ready to be counted by **Scan[®]** automatic colony counters. Results are immediately displayed and saved.

easySpiral[®] and **Scan[®]** guarantee the regularity and standardization of the analyses, save time, consumables and bench space of up to 75%.



Plating with easySpiral[®]: from 30 to 10⁷ CFU/ml on one single Petri dish

In compliance with **AFNOR V08-100** and **ISO 7218 standards**, **easySpiral[®]** automatically plates a sample in **8 seconds**: from 30 to 10⁷ CFU/ml on a **single Petri dish** without prior sample dilution. Once the sample is plated and incubated, you can analyze it manually or automatically by counting all or part of its colonies.



Manual plating method

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

1st Petri dish 24h incubation ~~OK~~

2nd Petri dish 24h incubation ~~OK~~

3rd Petri dish 24h incubation OK

4th Petri dish 24h incubation ~~OK~~

Automatic Spiral[®] method

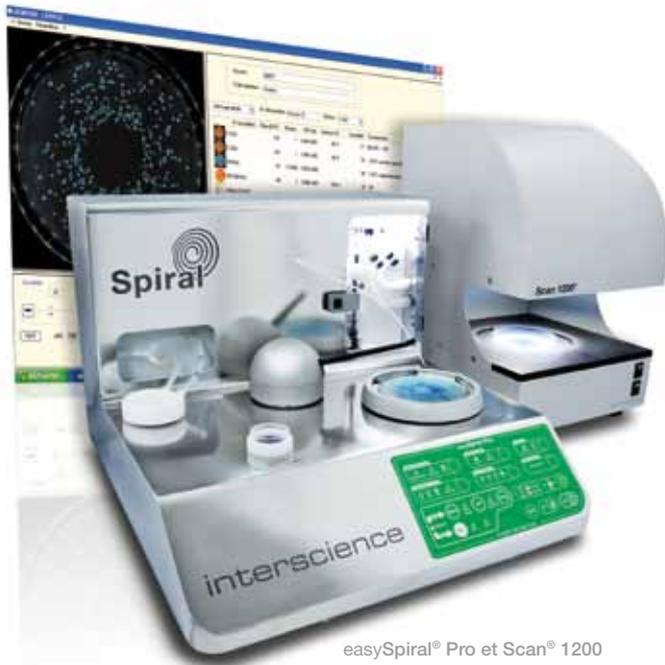
With this method, make your analysis on **1 single Petri dish!**

24h incubation OK

- From 30 to 10 million CFU/ml on 1 single Petri dish
- Up to 75% less consumables
- Full plating cycle in 25 seconds!

Increase your lab capacity!

> 30 years of expertise at your service



In 1973 Dr. Ed Campbell, a researcher at the FDA (Food and Drug Administration) developed a method to automate the routine work of bacterial plating. With his friend François Jalenques, a physicist and the founder of interscience, they developed this innovative process. The Spiral® method was then revised and patented in 1992. Today interscience offers over 30 years of experience in Spiral® technology in compliance with **AFNOR V08-100** and **ISO 7218 standards**.

Benefits

1 Incredible savings:

Save up to 75% in time, consumables and bench space

2 Fast:

Full plating cycle in 25 seconds and counting in 1 click

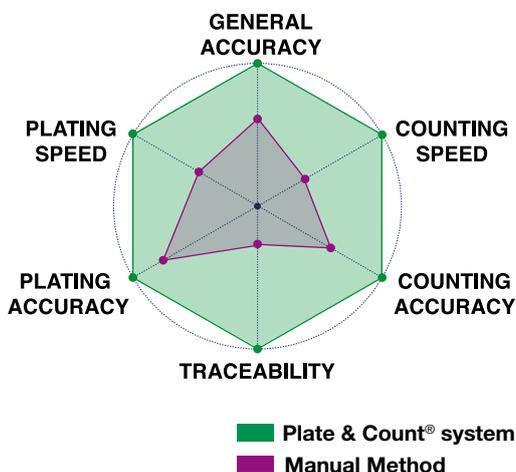
3 Reliable:

98% repeatable and reproducible results

4 Total traceability:

Automatic data saving and reporting

Method comparison



1977

Spiral® DS
First Spiral® plater



1996

Spiral® DS+
Automatic Spiral® plater



2010

easySpiral®
World's fastest Spiral® plater



Ask for technical brochure easySpiral® n° 30010-0

Technical specifications

	Scan® 300	Scan® 500	Scan® 1200	
Reference	436 300	436 000	437 000	
Image	Camera	CCD color camera		
	Digital zoom	x 7		
	Resolution	640 x 480 pixels		
	Counting time	1000 colonies per second		
	Minimum size of colonies	0.1 mm	0.05 mm	
	Lighting technology	Long-life white LEDs / Dark Field		
	Lighting system	6 combinations, top and/or bottom light white or black background		
Counting	Counting	Automatic, with manual control		
	Results / data export	Scan® recountable file, PDF report, JPEG, BMP, Excel™		
	Color detection	-	7 colors on the same Petri dish	
	Chromogenic medium	-	✓	✓
	Inhibition zones	-	✓	✓
	Petri dishes	✓ (55-90 mm)	✓ (55-90 mm)	✓ (55-90 mm)
	Spiral® plating	✓	✓	✓
	Petrifilm™	-	-	✓
	RIDA™ Count	-	-	✓
	Compact Dry™	-	-	✓
	Filtration membrane	-	-	✓
	LIMS connection	✓	✓	✓
	Languages	English, French, Japanese, Chinese, Russian		
Hardware	Dimensions (L x W x H)	27 x 27 x 29 cm		
	Weight	6.6 kg		
	Body	Stainless steel		
	Computer connection	Firewire A		
	Power	100-240 V - 50/60 Hz		
PC requirements	Operating systems	Windows XP™, Vista™, Windows™ 7		
	Processor	Intel Celeron or Pentium4, AMD Athlon and superior, 1 GHz	Intel Core or AMD Phenom and superior, 1 GHz	
	RAM	512 Mbyte		
	Equipment	FireWire connector (4 or 6 pins) or free PCI or PCMCIA or Expresscard port, CD-ROM reader		
	Screen	1024 X 768 pixels and more		
	Computer	Desktop computer recommended		
	Delivered with	Scan® software CD-ROM/ user guide/ FireWire adaptaters: PCI, PCMCIA, Expresscard, 6/4 pins		
	Guarantee	3 years*		
	Software update	3 years free*		

* After return of the guarantee card

Scan® accessories



Barcode reader
Ref. : 522 000



Petrifilm™ adapter
Ref. : 436 002



**RIDA™ Count /
Sanita-kun™ adapter**
Ref. : 436 001



Compact Dry™ adapter
Ref. : 436 004



55 mm dishes adapter
Ref. : 436 005

interscience

A complete range of lab equipment

interscience offers a full range of products, from sample preparation to analysis:

- 1 **BagFilter® / BagPage®** sterile filter bags
- 2 **Gravimat®** gravimetric dilutors
- 3 **BagMixer®** homogenizers
- 4 **BagTools®** accessories
- 5 **easySpiral®** automatic platers
- 6 **Scan®** colony counters



On the web

Find all our products on:

www.interscience.fr

Find and download:

- Latest information on our products
- Demonstration photos and videos
- **Scan®** software demonstration version





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