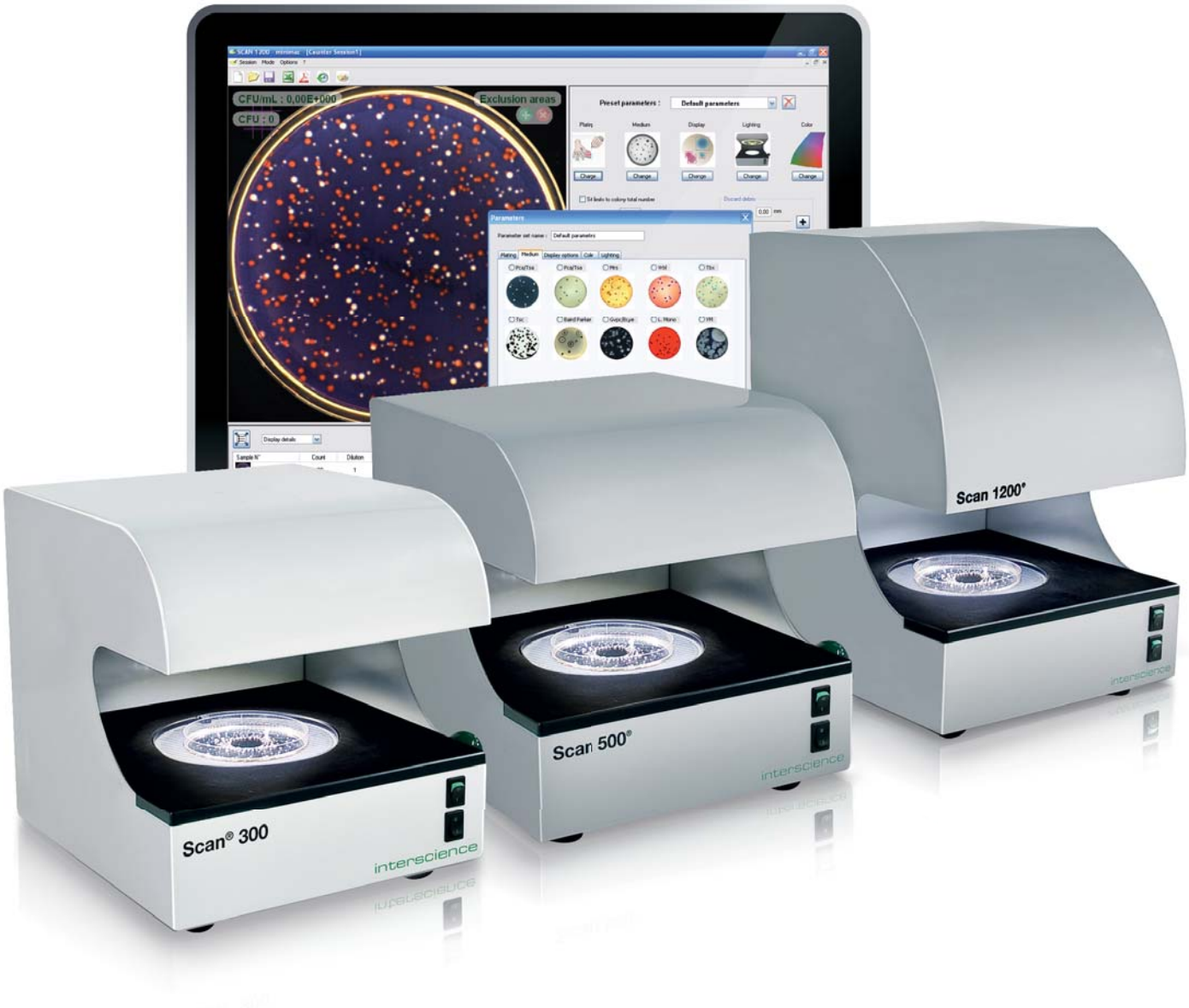
Scan®

Automatic colony counters & inhibition zone readers



interscience

interscience

Our quality for your lab

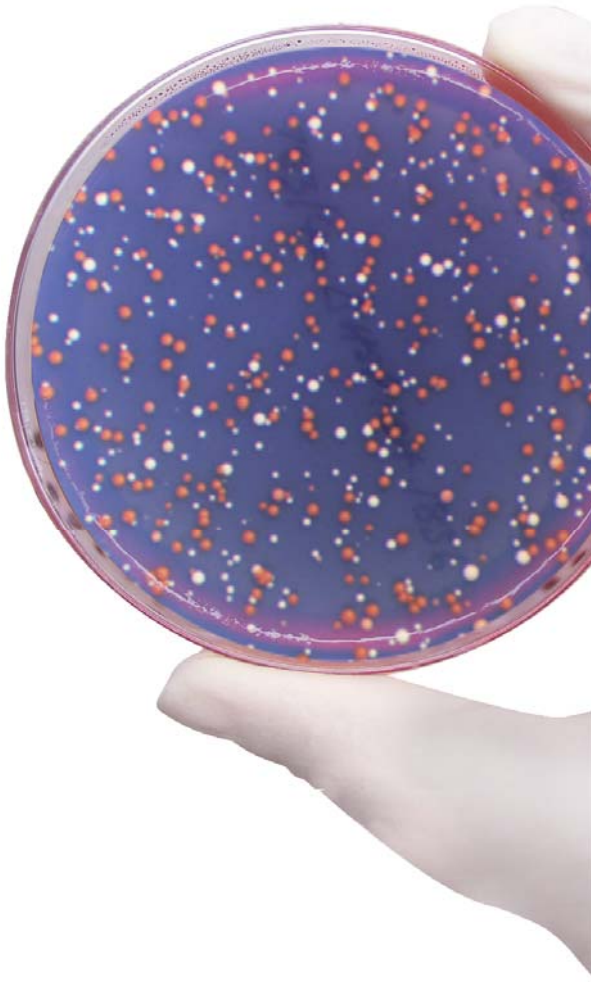
- Designer and manufacturer for microbiological analyses
- Made in France
- R&D leadership with innovative & reliable products
- Worldwide distribution network, immediate delivery

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

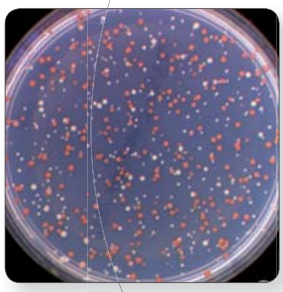
- **Pharmaceutical industry, medical research & hospitals** (antibiograms, resistance tests to pathogenic microbes, medical diagnoses...)
- **Food industry** (Tests on lactic ferments & for dairy ingredients industry...)

Scan® colony counters

- **Automatic colony counters: No settings**
- **Inhibition zone readers***
- **Data traceability and full report**

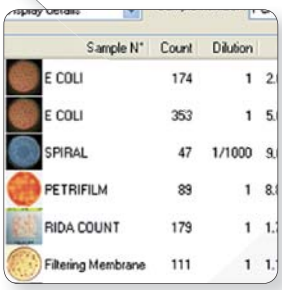
High performance

> 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**



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

GLP GOOD LABORATORY PRACTICE ISO 7218 ISO 4833-2

* on Scan® 500 & Scan® 1200

Easy-to-use

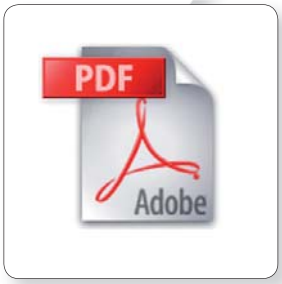
Counting in 1 click <
All functions in 1 single window <
Custom parameters: day, users, project... <

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 DEMO VERSION

DOWNLOAD SCAN® SOFTWARE

www.interscience.fr

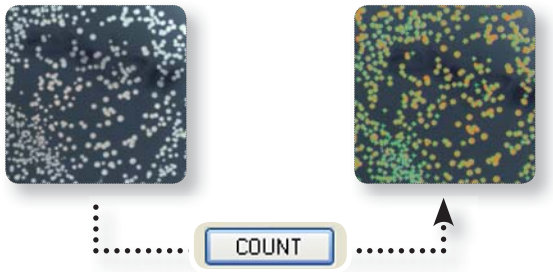
LIMS · FireWire · COLOR DETECTION · Dark Field · FREE UPDATE** · 3 YEAR GUARANTEE

** 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.



No settings

Choose your pre-set parameters for Petri dishes:

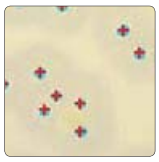
Pca/Tsa | Mrs | Vrbl/Vrbg | Tbx | Tsc | Baird Parker | Gvpc Bcye | YM | Rapid L. Mono | Rapid Entero

Also available on **Scan® 1200**:

- RIDA™ COUNT - Sanita-kun™: AC, CC, EC/CC, SA
- Petrifilm™: AC, ETB, CC, EC/CC, EC
- Compact Dry™: TC, CF, EC, ETB

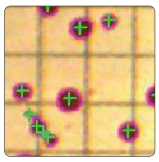
High-performance colony counters

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.



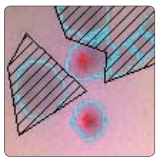
Scan® read all the colonies, even the smallest

Automatic separation of confluent colonies



Automatic elimination of counting grids

Cross on each counted colony



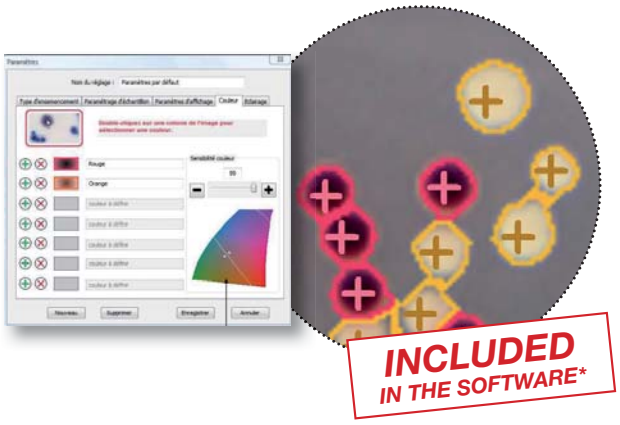
Polygonal exclusion areas

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, zoom x7
- 6 combinations of lighting and backgrounds
- Brightness, contrast and sensitivity are automatically optimized by the software
- Minimum size of detected colony: 0.1 mm
- Automatic separation of clustered colonies
- Creation of polygonal exclusion zones
- Long lasting LED lighting
- Export of data to Excel™, PDF
- Software in French, English, Japanese, Chinese, Russian, Spanish

Ref 436 300

Count these supports


Petri Dish


Spiral® plating

Scan® 500 Efficient

- Color CMOS camera, zoom x7
- 6 combinations of lighting and backgrounds
- Brightness, contrast and sensitivity are automatically optimized by the software
- Minimum size of detected colony: 0.1 mm
- Automatic separation of clustered colonies
- Creation of polygonal exclusion zones
- Long lasting LED lighting
- Export of data to Excel™, PDF
- Software in French, English, Japanese, Chinese, Russian, Spanish
- **Detects and counts up to 7 colors on the same dish**
- **Adapts itself to most kinds of agar**

Ref 436 000

Count these supports


Petri Dish


Spiral® plating


Chromogenic Petri Dish


Inhibition zone

Scan® 1200 High-Resolution

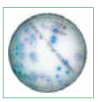
- 6 combinations of lighting and backgrounds
- Detects and counts up to 7 colors on the same dish
- Brightness, contrast and sensitivity are automatically optimized by the software
- Minimum size of detected colony: 0.05 mm
- Automatic separation of clustered colonies
- Creation of polygonal exclusion areas
- Long lasting LED lighting
- Export of data to Excel™, PDF
- Software in French, English, Japanese, Chinese, Russian, Spanish
- **HD color CCD camera, zoom x28**
- **Adapts itself to most kinds of agar**
- **Motorized background color**
- **Lights controlled by Scan® Software**

Ref 437 000

Count these supports


Petri Dish

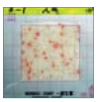

Spiral® plating


Chromogenic Petri Dish


Inhibition zone


Petrifilm™


Compact Dry™


RIDA™ Count Sanita-kun™


Filtration membrane

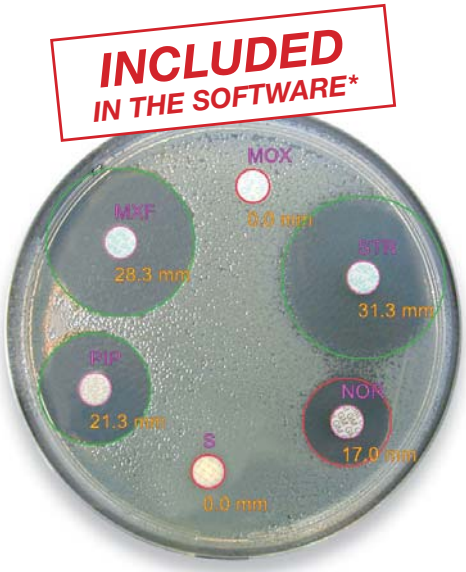
Inhibition zone from paper discs, agar wells & peni cylinders

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 guarantee repeatability and reproducibility of analysis and diagnosis reliability.

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



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

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

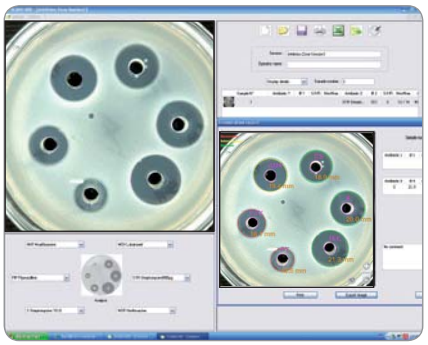
Medical analysis

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) and of the European Committee on Antimicrobial Susceptibility Testing (EUCAST)** which determines the sensitivity of the bacteria to the antibiotic. This database is fully editable.

Precision of inhibition zone radius measurement from paper discs : 0.1 mm

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. To evaluate the action of an antibiotic, antibiotic diffusion from paper disc, agar well or peni cylinder is supported.



Precision of inhibition zone radius measurement from agar wells : 0.1 mm

CFR 21 part 11

GLP GOOD LABORATORY PRACTICE

* on Scan® 500 & Scan® 1200

Comfort of use

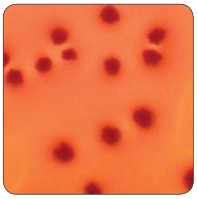
> *High definition live image*

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)

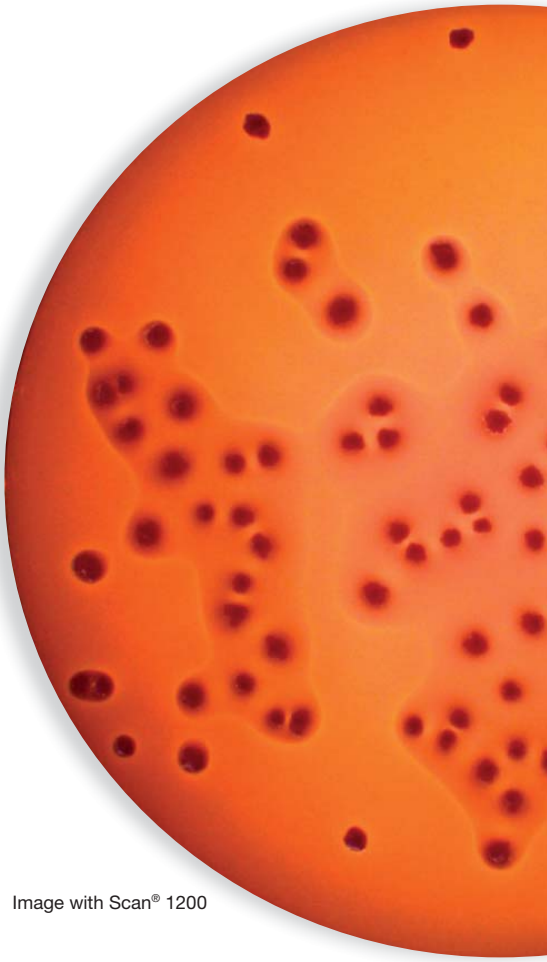


Image with Scan® 1200

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

Fast communication, total traceability

Results harmonization

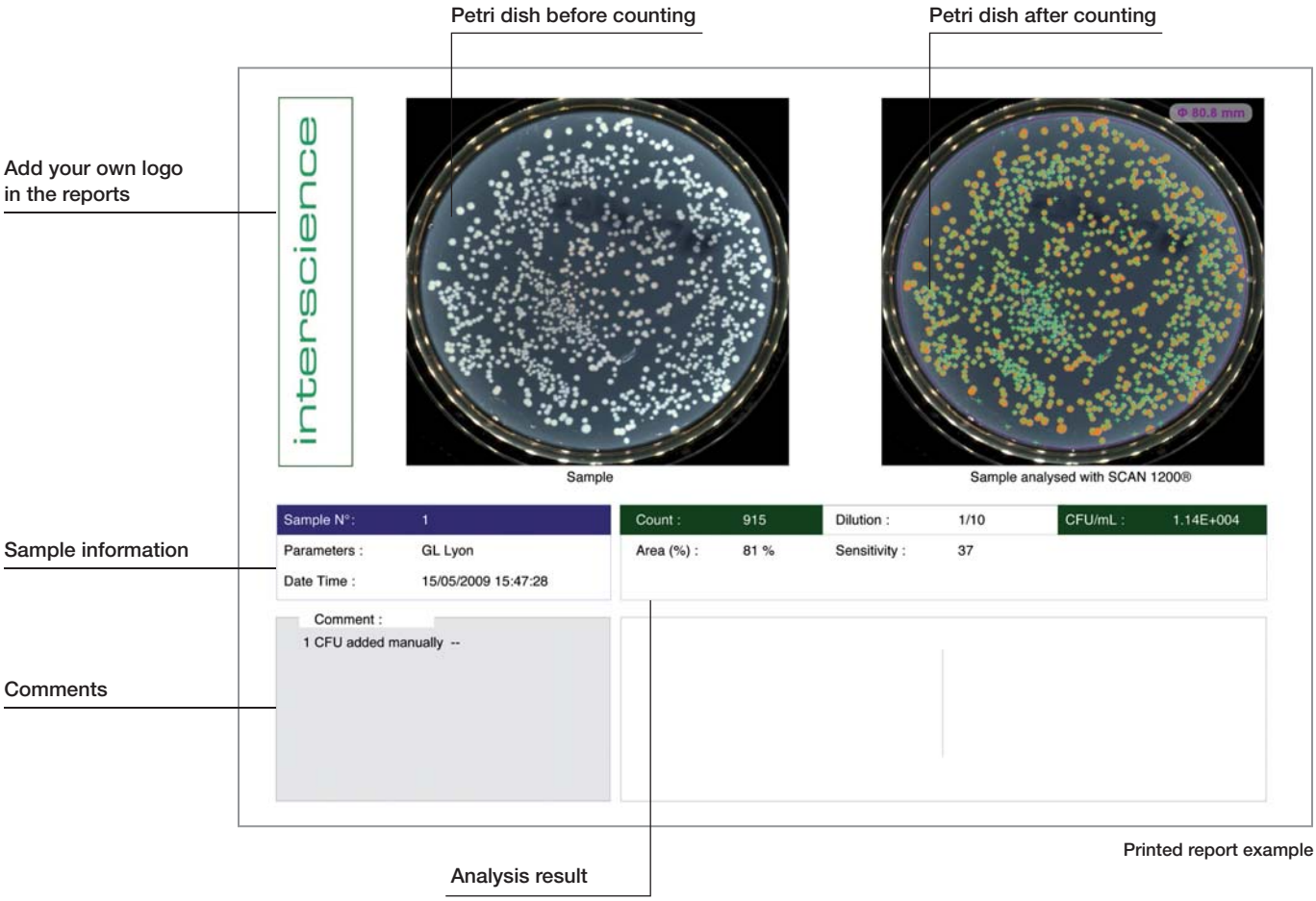
Using the **Scan**® allows more reliable analyses and harmonizes the results within a team.

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

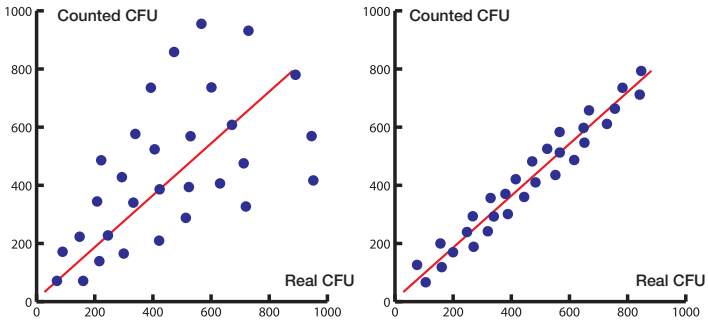
You can export your results to your PC, archive it in Excel™, PDF or SCA format. You can also export pictures from the camera in JPEG, PNG and BMP format.



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:

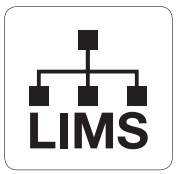
Standardized and reproducible results by automatic counting

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

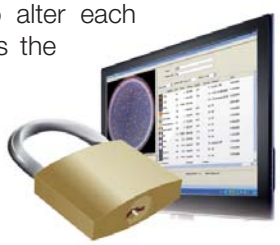
Archiving



LIMS connection

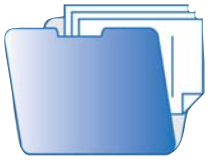
Secure your sessions

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.



> *External traceability*

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

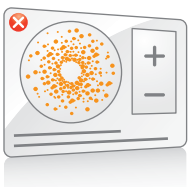


Work sessions saving

PDF export

JPEG, PNG & BMP formats export

Export results to Excel™ for ensure traceability



Print report from Scan®

Plate & Count System®
with data**Link**™

INCREASE
your lab capacity with easy**Spiral®** & **Scan®!**

More info on
www.interscience.fr

Plate & Count System® enables automatic plating and colony counting with full traceability!

- **INCREDIBLE SAVINGS:** Save up to 75% in time, consumables and bench space
- **FAST:** Full plating cycle in 25 seconds and counting in 1 click
- **RELIABLE:** 98% repeatable and reproducible results
- **TOTAL TRACEABILITY WITH** data**Link™:** Automatic data saving and reporting

Plate & Count System® includes:

- easy**Spiral®: 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.

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

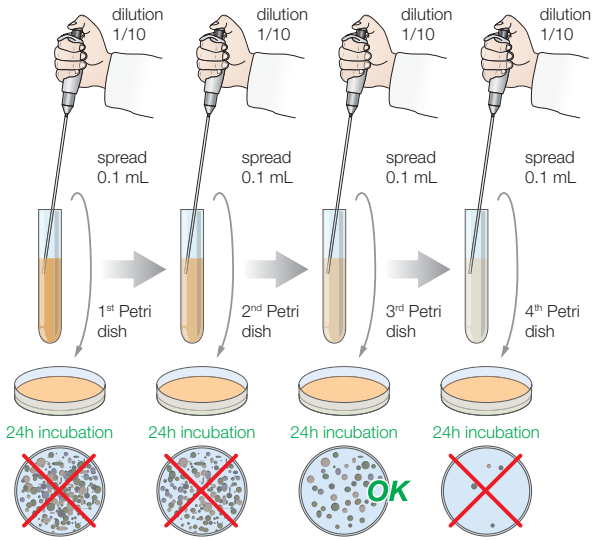
Plating with easy**Spiral®**: FROM 30 TO 10^7 CFU/ML ON ONE SINGLE PETRI DISH

In compliance with **AFNOR V08-100, ISO 4833-2** and **ISO 7218 standards**, easy**Spiral®** automatically plates a sample in **8 seconds**: from 30 to 10^7 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.

ISO 4833-2 | **ISO** 7218 | **AFNOR** V08-100

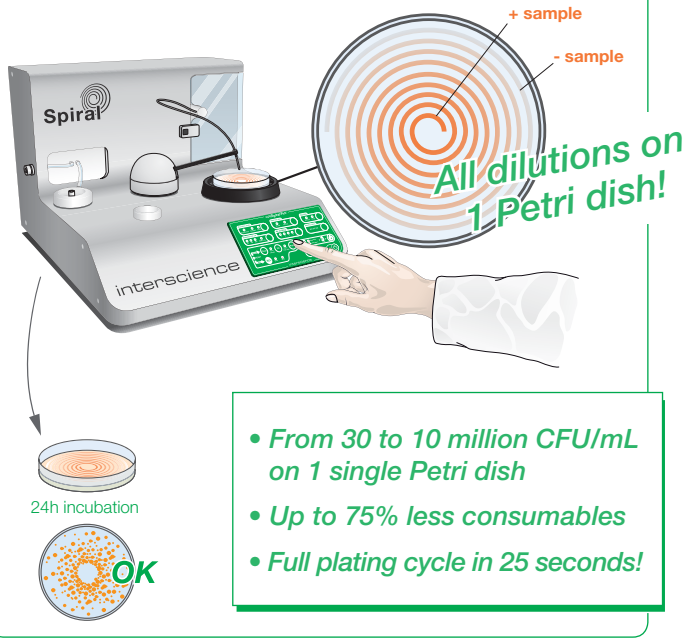
Manual plating method

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



Automatic Spiral® method

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



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

Technical specifications

		Scan® 300	Scan® 500	Scan® 1200
	Reference	436 300	436 000	437 000
Image	Camera	CCD color camera	CMOS color camera	HD CCD color camera
	Digital zoom	x 7		x 28
	Resolution	640 x 480 pixels		1280 x 960 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		Automatic 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, PNG, 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, Spanish		
Hardware	Dimensions (L x W x H)	27 x 27 x 29 cm		27 x 27 x 38 cm
	Weight	6.6 kg		8.7 kg
	Body	Stainless steel		
	Computer connection	Firewire A		
	Power	100-240 V~ 50/60 Hz		
PC requirements	Operating systems	Windows™: Vista, 7, 8		
	Processor	Intel (recommended) or others, 2 GHz or better		Intel Core (recommended) or AMD Phenom and superior, 2 GHz
	RAM	2 Go		3 Go
	Equipment	FireWire connector or free PCI slot / CD ROM drive		
	Screen	1280 X 1024 pixels and more		
	Computer	Desktop computer recommended / Laptop not recommended		

Delivered with : Scan® software CD-ROM/ user guide/ FireWire adapters: PCI express, Expresscard, adapter 6/4 pins

ISO 9001 2008 · CE · CFR 21 part 11 · WEEE 2002/96/EC · RoHS 2002/95/EC · IQ/OQ/PQ

Guarantee

3 years **Guarantee /** 3 years free **Software update (after registration of the guarantee form)**

PC requirements are subject to change. Please check our website www.interscience.fr for current updates and additional informations.

Scan® accessories

Barcode reader
Ref. : 522 000

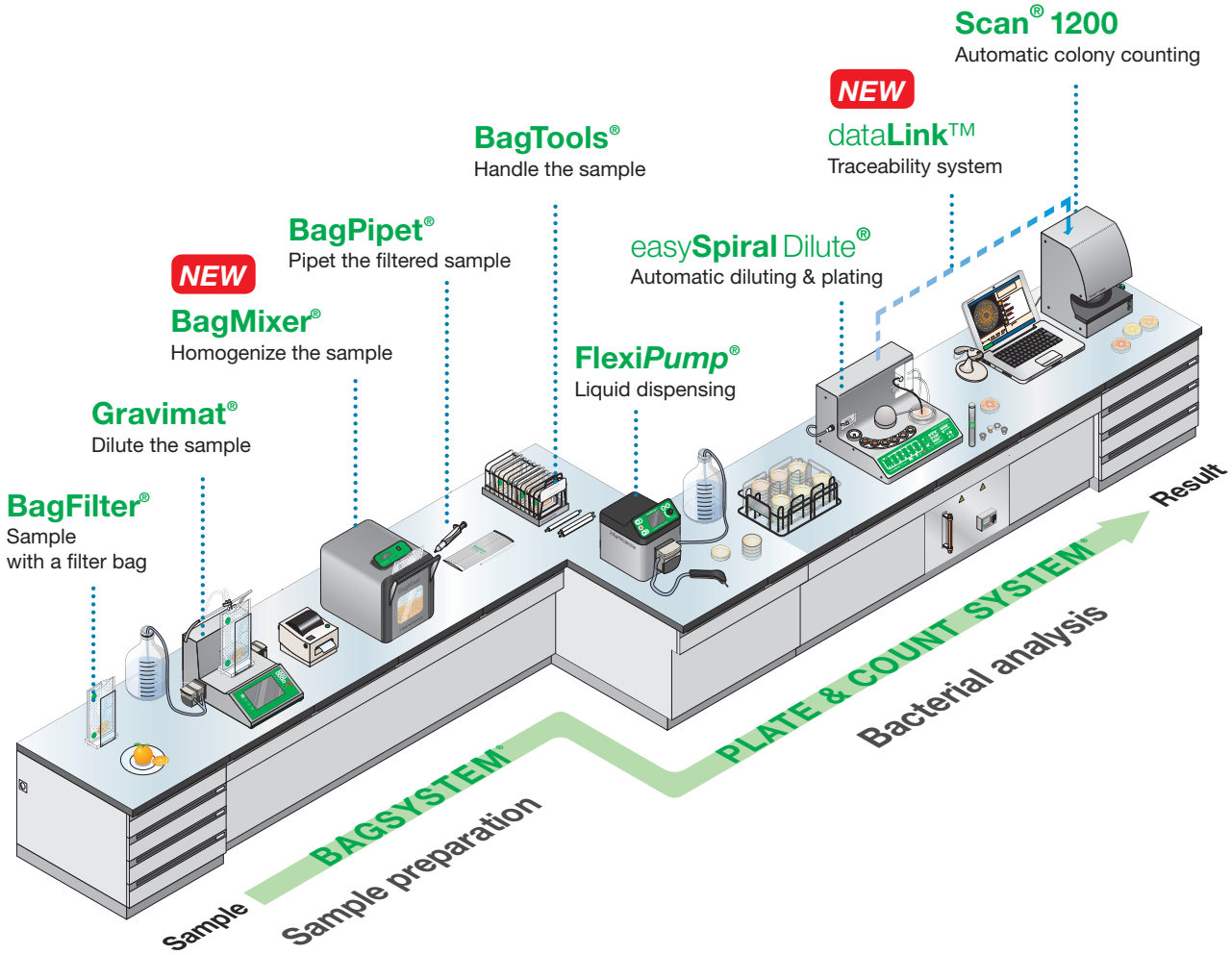
Petrifilm™ adapter
Ref. : 436 002

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

Compact Dry™ adapter
Ref. : 436 004

55 mm dishes adapter
Ref. : 436 005

Discover our complete range for microbiology



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- Demonstration photos and videos

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