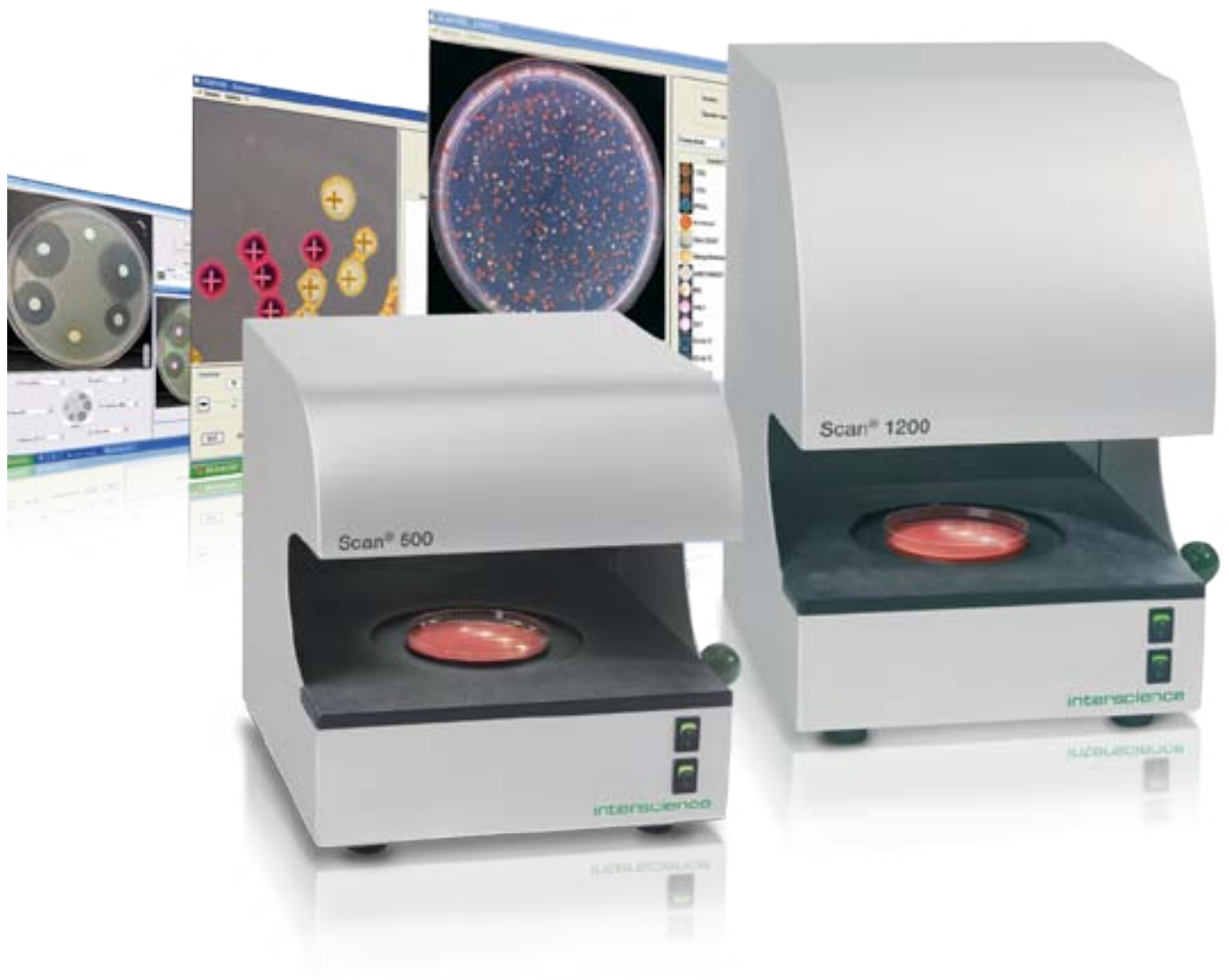


interscience



# Scan<sup>®</sup> 500 & Scan<sup>®</sup> 1200

Automatic colony counters



# interscience

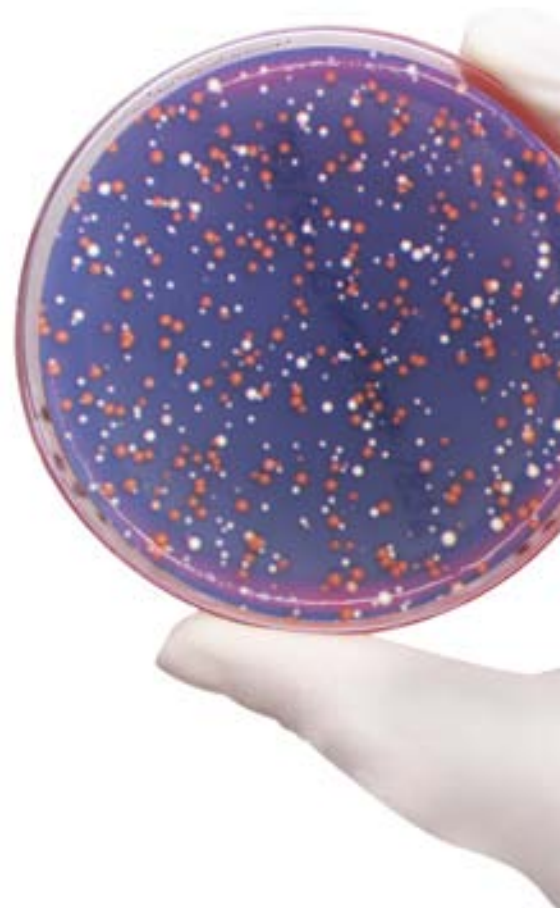
## At your service for 30 years

- Designer & Manufacturer for microbiological analyses:  
from sample preparation to bacterial enumeration
- Full range of equipment and consumables
- Made in France
- R&D leadership with innovative & reliable products
- 24/7 technical support
- Worldwide distribution network in more than 80 countries.

# Scan<sup>®</sup> 500 & Scan<sup>®</sup> 1200

## High quality analyses, full traceability

**Scan<sup>®</sup> 500 & Scan<sup>®</sup> 1200:** High technology automatic colony counters. With a digital camera and high technology software, they can be linked to a PC thanks to a Firewire connection. They count all the colonies on a Petri dish in less than 1 second and provide a complete, fast, accurate and traceable reading of the results.



### ■ Bacterial enumeration

- **Food analyses**
- **Total flora analyses:** organisms 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 pathogene microbes, medical diagnoses ...)
- **Food industry**  
(Tests on lactic ferments & for dairy ingredients industry...)

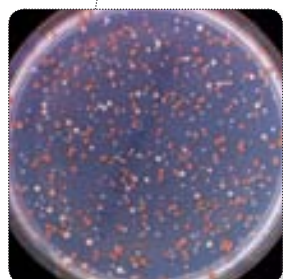
# Scan<sup>®</sup> 500 & Scan<sup>®</sup> 1200

- > Automatic colony counters
- > Inhibition zones reader
- > Data traceability and filing



## High performance

- > Count the colonies of numerous media
- > Chromogenic Petri dishes readers:  
Colored differentiation of colonies  
(up to 7 different colors on the same dish)
- > Inhibition zones measuring



## 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 x 28 for **Scan<sup>®</sup> 1200**

E COLI	174	1	2.0
E COLI	253	1	5.0
SPIRAL	47	1/1000	9.0
PETRIFILM	89	1	8.0
RODA COUNT	179	1	1.2
Filting Membrane	311	1	1.3
SAFED PARKER	68	1	8.4
MRS	21	1/1000	2.9

## Instant results

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







**DOWNLOAD**

[www.interscience.fr](http://www.interscience.fr)

## Easy-to-use

- > Total counting in 1 click
- > All functions in 1 single window
- > Custom parameters: day, users, project...

COUNT

## Dark Field technology

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



## Traceability & reporting

- > Automatic archives of data: pictures, comments & results
- > Export to EXCEL™, PDF, JPEG, BMP
  - > Barcode reader
- > Connection to LIMS network



IQ-OQ-PQ  
Compliant

WEEE Compliant  
Directive 2002/96/EC

RoHS Compliant  
Directive 2002/95/EC

CFR 21  
part 11

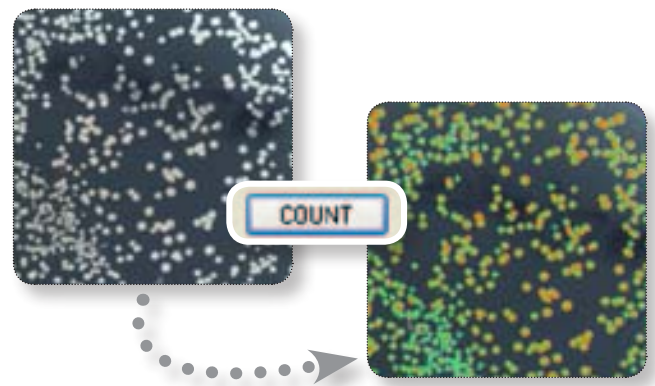


\* Free update of the software during 3 years

# Efficiency & time saving

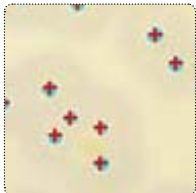
## Instant results

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



## High-performance colony counters

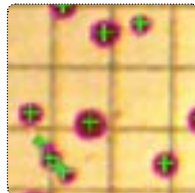
**Scan®** works for every kind of colony, even the hardest to count. The minimum size is **0.05 mm for Scan® 1200** and **0.1 mm for Scan® 500**. **Scan®** colony counter automatically separates confluent colonies, allows you to create polygonal exclusion areas and ignores agar flaws and air bubbles.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



**Scan®** read all the colonies, even the smallest



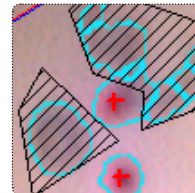
**Automatic separation of confluent colonies**



**Automatic elimination of counting grids**



**Cross on each counted colony**



**Polygonal exclusion areas**



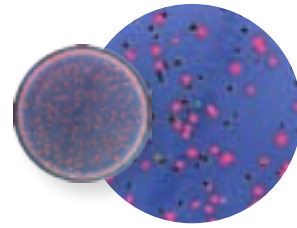
**Automated software with manual control**



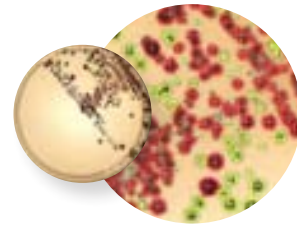
## Dark Field technology

The long lasting LED **Dark Field** technology guarantees a great visual comfort. The skimming and crossing lighting system makes all the colonies fully visible, with a perfect contrast and lighting. 6 lighting combinations are possible with the double-lighting system and the modular background.

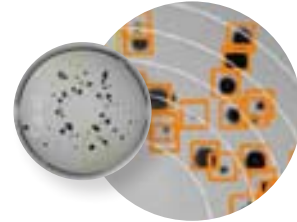
> Read all these supports



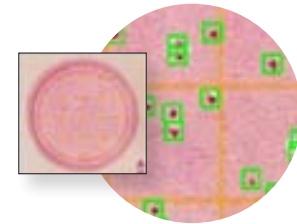
Petri dishes



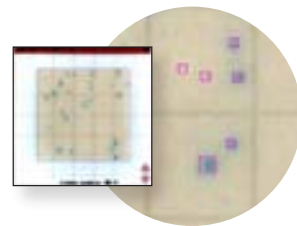
Chromogenic  
Petri dishes



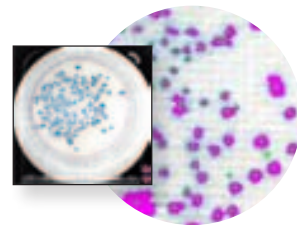
Spiral® plates



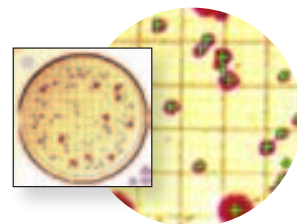
Petrifilm™



RIDA™ Count /  
Sanita-kun™



Compact Dry™

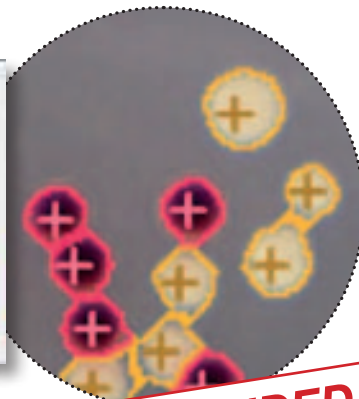
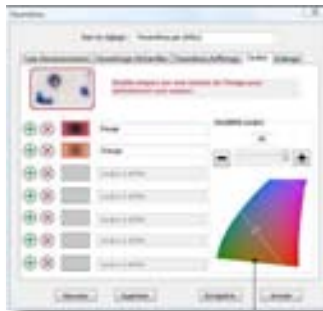


Filtration  
membranes

## Color detection & chromogenic media

Scan® can read chromogenic Petri dishes 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 medium reading allows the detection of Salmonella on XLD medium and E.Coli on TBX medium, for example.



**INCLUDED  
IN THE SOFTWARE**

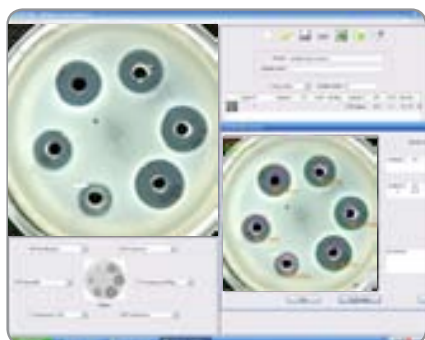
# Inhibition zone Agar well

**INCLUDED  
IN THE SOFTWARE**

## Medical analysis

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

**Scan®** measures each inhibition zone to 1/10<sup>th</sup> mm.



## Pharmaceutical analysis

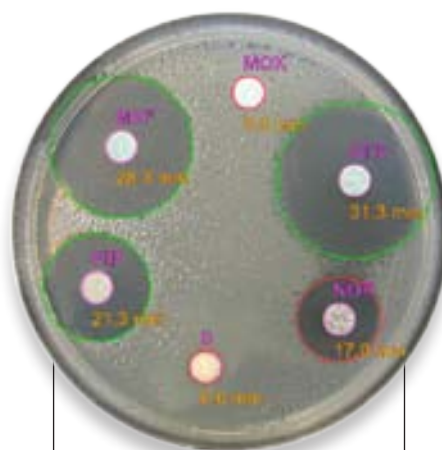
In the pharmaceutical industry, **Scan®** allows you to test the quality of an antibiotic during its fabrication process by measuring the inhibition zones. The agar well measure, another procedure used in pharmaceutical research allows to evaluate the action of an antibiotic too.

**Scan®** measures agar wells to 1/10<sup>th</sup> mm.

## Performance and flexibility

**Scan®** allows efficient work flow because you can create and edit a list of antibiotics, useful for routine analysis. You can also modify the measure of inhibition zones by increasing or decreasing its size and you can manually add wells.

Inhibition zone and agar wells measured by **Scan®** guarantee repeatability and reproducibility of analysis and diagnosis reliability.



The verdict of sensitivity in contact with the antibiotic is fast and visualization of results is clear: Red (resistant), Yellow (intermediate) or Green (sensible).



CFR 21  
part 11



# Comfort of use

## Optimum visualization

Enjoy a comfortable viewing of the colonies with the unparalleled **Dark Field technology**, **direct high definition 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 circle for optimal contrast



**Scan®** automatically optimizes contrast, luminosity and sensitivity

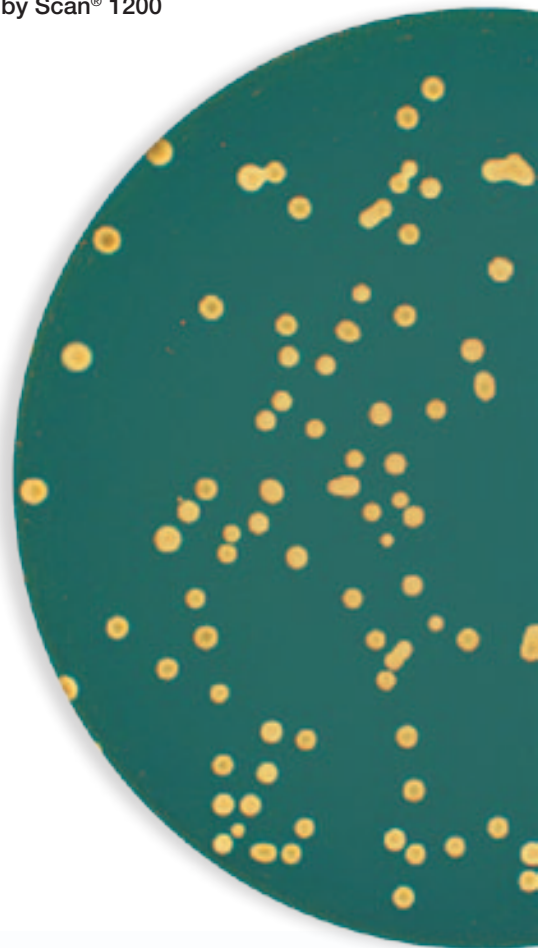


Digital zoom with the mouse wheel

## > *High definition live image*

The high definition image enables you to enjoy total control of colony counting.

High definition image by Scan® 1200

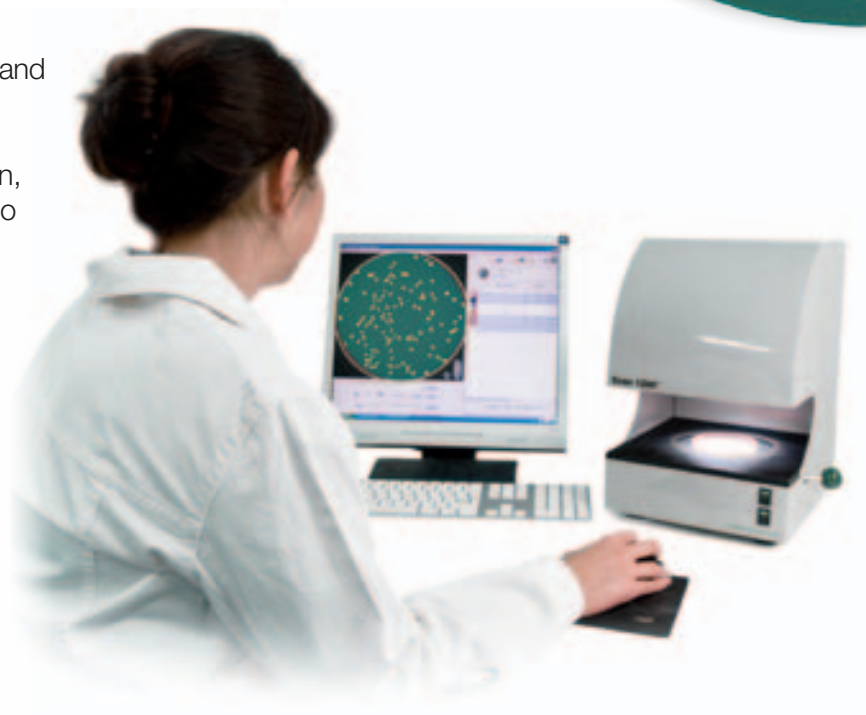


## Easy-to-use

All **Scan®** functions are in **1 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 works.

**Scan®** software is available in **5 languages** (English, French, Chinese, Russian, 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.



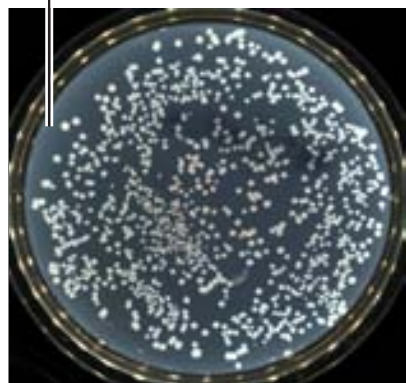
## Print your results

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

Add your own logo in the reports

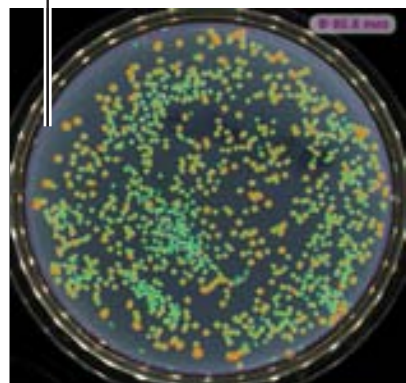


Petri dish before counting



Sample

Petri dish after counting



Sample analysed with SCAN 1200®

Sample information

Sample N°:	1
Parameters :	GL Lyon
Date Time :	15/05/2009 15:47:28

Count : 915

Dilution : 1/10

CFU/mL : 1.14E+004

Area (%) : 81 %

Sensitivity : 37

Your comments

Comment :

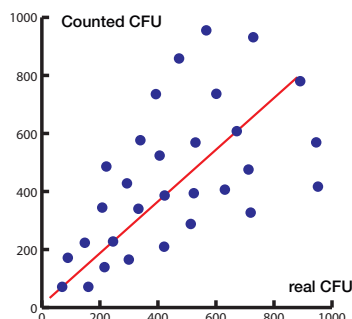
1 CFU added manually --

Analysis result

Printed report example

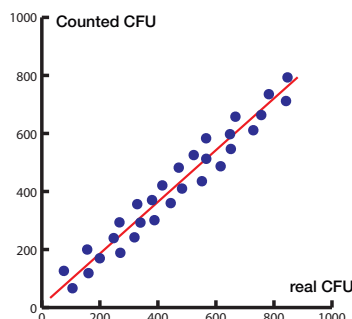
## Reproducibility of results

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.



### 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

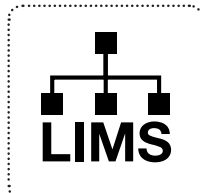
Thanks to the **LIMS** connection and the barcode reader, counted plates are **saved and traceable**. This is the guarantee of efficient results. The images are accessible and recountable at any time.



Barcode



Archiving



LIMS connection

## Secure your sessions

Sessions are secured with a **security code**, one per operator, and the unalterable saving of each counting. **Scan®** use allows the compliance with **CFR 21 part 11** : systems securization, operational controls and documentation management.



## > External traceability

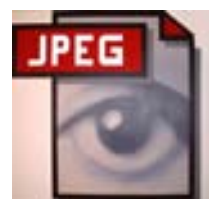
Scan® software provides numerous possibilities to easily and quickly export your results.



> Session saving



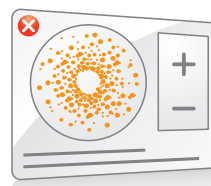
> PDF export



> JPEG & BMP export formats



> Export to Excel™ for full traceability



> Scan® printed report

# Increase your lab capacity!



## Plate and count your Petri dishes: up to 75% time saving



The **Plate & Count®** system has been developed by the interscience R&D center. It is a combination of **easySpiral®** and **Scan®** that work in harmony to give you quick and accurate results. Once the Spiral plated dish is out of the incubator, it is ready to be counted by **Scan®**. Results are immediately displayed and saved. **easySpiral®** and **Scan®** guarantee the regularity and standardization of analyses with a great gain of time, consumables and bench space of up to 75%.

No more useless waste!

## Plating with easySpiral®: from 30 to 10<sup>7</sup> CFU/ml on 1 single Petri dish

**easySpiral®** automatically plates a sample in **8 seconds**: from 30 to 10<sup>7</sup> CFU/ml on a **single Petri dish** with no preliminary sample dilution, in compliance with AFNOR V08-100 standard. 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   2nd Petri dish   3rd Petri dish   4th Petri dish

24h incubation   24h incubation   24h incubation   24h incubation

OK

+ **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!

24h incubation

OK



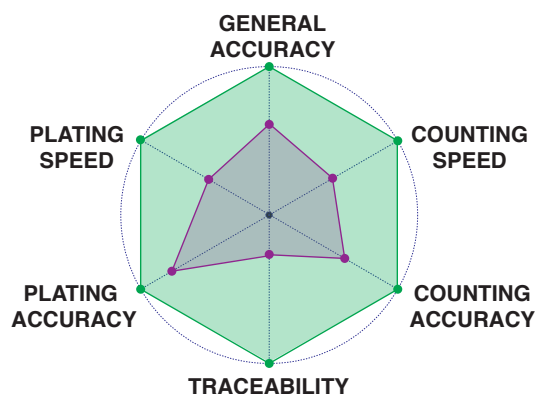
- **easySpiral®**: Automatic bacterial platers
- **Scan®**: Automatic colony counters



**MORE INFO:**  
[www.interscience.fr](http://www.interscience.fr)

### Benefits:

- Speed and accuracy of plating
- Speed and accuracy of counting
- Traceability
- Increase your analysis capacities



Manual method

Plate & Count® method

**> 30 years of experience  
 at your service**



In 1973 Dr. Ed Campbell, a researcher at the FDA<sup>1</sup> 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** place at your service more than 30 years of experience in Spiral® technology in compliance with AFNOR V08-100.

<sup>1</sup>Food and Drug Administration

**1977**

**Spiral® DS**

First accelerated bacterial plater



**1996**

**Spiral® DS+**

Automatic bacterial plater



**2010**

**easySpiral®**

Third generation bacterial plater



# Technical specifications

	Scan® 500	Scan® 1200
Reference	436 000	437 000
Camera	CCD 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	1000 colonies per second
Minimum size of colonies	0.1 mm	0.05 mm
Lighting	Long lasting life white LEDs	Long lasting life white LEDs
Lighting system	Dark Field: Double oblique / crossed light, transparent / black background	Dark Field: Double oblique / crossed light, transparent / black background
Counting	Automatic with manual control	Automatic with manual control
Results / data export	Scan® recountable file, PDF report, JPEG, BMP, Excel™	Scan® recountable file, PDF report, JPEG, BMP, Excel™
Color detection	7 colors on the same Petri dish	7 colors on the same Petri dish
Inhibition zones	✓	✓
Petri dishes	✓ (55-90 mm)	✓ (55-90 mm)
Chromogenic medium	✓	✓
Spiral® plating	✓	✓
Petrifilm™	-	✓
RIDA™ Count / Sanita-kun™	-	✓
Compact Dry™	-	✓
Filtration membrane	-	✓
LIMS connection	✓	✓
Languages	English, French, Japanese, Chinese, Russian	English, French, Japanese, Chinese, Russian
Dimensions (l x L x h)	27 x 27 x 29 cm	27 x 27 x 38 cm
Weight	6.6 kg	8.7 kg
Body	Stainless steel	Stainless steel
Computer connection	Firewire A	Firewire A
Power	100-240 V - 50/60 Hz	100-240 V - 50/60 Hz
Operating systems	Windows XP™, Vista™, Windows™ 7	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	1 Gbyte
Equipment	Firewire connector (6 pins) or free PCI port, CD-ROM reader	Firewire connector (6 pins) or free PCI port, CD-ROM reader
Screen	1024 X 768 pixels and more	1024 X 768 pixels and more
Computer	Desktop computer recommended	Desktop computer recommended
Delivered with	Scan® software CD-ROM, Firewire PCI card, user manual	Scan® software CD-ROM, Firewire PCI card, user manual
Guarantee	3 years*	3 years*
Software update	3 years free	3 years free

\* 3 years guarantee after return of the guarantee card

# Scan<sup>®</sup> accessories



Barcode reader  
Réf. : 522 000



Petrifilm™ adapter  
Réf. : 436 002



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



Compact Dry™ adapter  
Réf. : 436 004



55 mm dishes adapter  
Réf. : 436 005

## A complete range of lab equipment

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

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



## interscience on the net

Find all our products on:

[www.interscience.fr](http://www.interscience.fr)

Find and download:

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





interscience R&D center and manufacturing site, Mourjou, France

[www.interscience.fr](http://www.interscience.fr)

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