Scan®

Automatic colony counters & inhibition zone readers

interscience

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Our quality for your lab

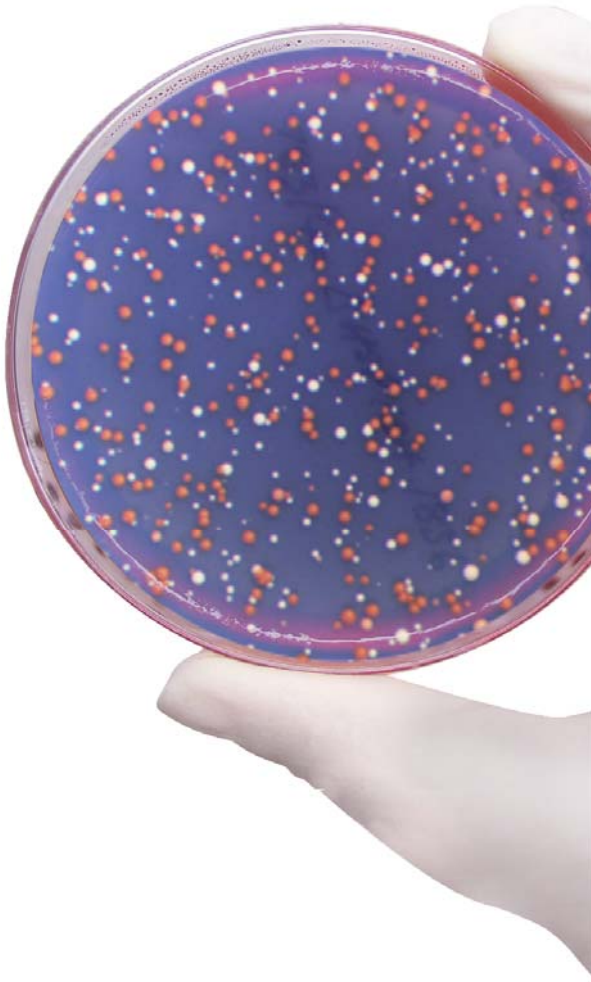
- Designer and manufacturer for microbiological analyses
- Made in France
- R&D leadership with innovative & reliable products
- Worldwide distribution network, immediate delivery

Scan®

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 USB 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**
- **Aerobic & anaerobic bacterial enumeration, yeasts, lactobacillus...**
- **Pathogenic bacteria research**
- **Environmental research**
- **Pharmaceutical analyses**
- **Medical analyses**
- **Cosmetics analyses**

Inhibition zones

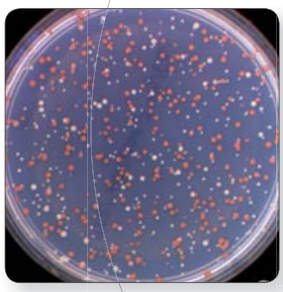
- **Pharmaceutical industry, medical research & hospitals** (antibiograms, resistance tests to pathogenic microbes, medical diagnoses...)
- **Food industry** (Tests on lactic ferments & for dairy ingredients industry...)

Scan®

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

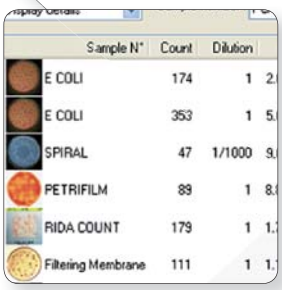
High performance

> 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



Instant results

> Up to 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 | ISO 15189 | XP V08-034 | NF V08-100 | AOAC 977.27 | FDA BAM Bacteriological Analytical Manual | CFR 21 Part 11 | sfm | EUCAST | CLSI

* on Scan® 500 & Scan® 1200

Easy-to-use

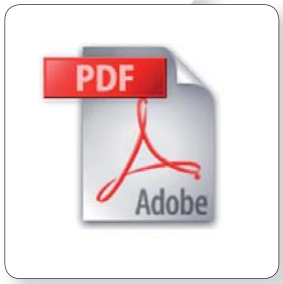
Counting in 1 click <
All functions in 1 single window <
Custom parameters: day, users, project... <

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.com

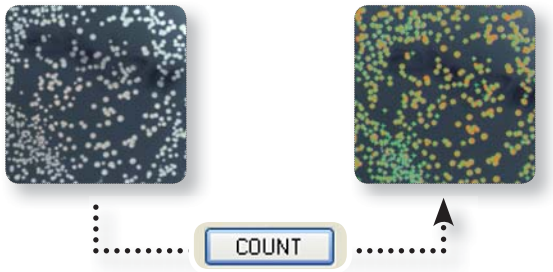
data Link | LIMS | USB | COLOR DETECTION | Dark Field | FREE UPDATE** | 3 YEAR WARRANTY

** Free update of the software during warranty period

Efficiency & time saving

Instant results

Thanks to the live image display of the Petri dish on your computer, count more than **1000 CFU/s** 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:

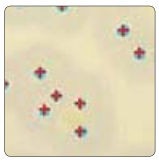
Pca/Tsa · Mrs · Vrbl/Vrbg · Tbx · Tsc · Baird Parker · Gvpc Bcye · YM · Rapid L. Mono · Rapid Entero · Rhapsody · Compass cereus

Also available on **Scan® 1200**:

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

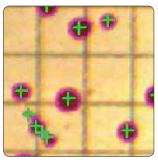
High-performance colony counters

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.



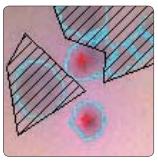
Scan® read all the colonies, even the smallest

Automatic separation of confluent colonies



Automatic elimination of counting grids

Cross on each counted colony



Polygonal exclusion areas

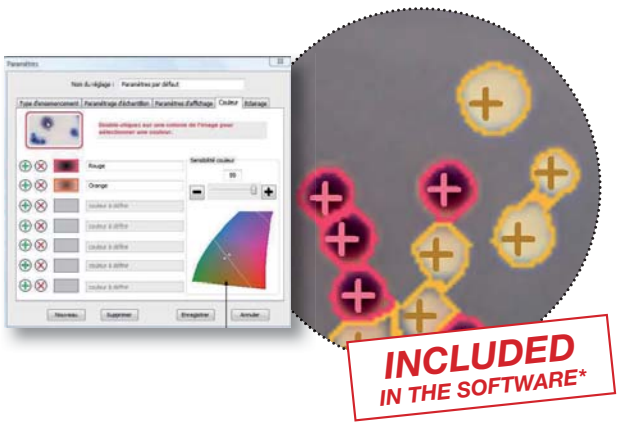
Automated software with manual control

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



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Scan® : 3 models adapted to your needs

Scan® 300
Essential

Ref 436 300

- 6 combinations of lighting and backgrounds
- Motorized background color
- Brightness, contrast and sensitivity are automatically optimized by the software
- Long lasting LED lighting
- CMOS color camera, zoom x28, M12 lens
- Minimum size of detected colony: 0.1 mm

Count these supports

Surface/pour plating

Spiral® plating

Scan® 500
Efficient

Ref 436 000

- 6 combinations of lighting and backgrounds
- Motorized background color
- Brightness, contrast and sensitivity are automatically optimized by the software
- Long lasting LED lighting
- CMOS color camera, zoom x28, M12 lens
- Minimum size of detected colony: 0.1 mm
- **Detects and counts up to 7 colors on the same dish**
- **Inhibition zone reading with EUCAST, CA-SFM, CLSI and editable database**

Count these supports

Surface/pour plating

Spiral® plating

Chromogenic Petri dishes

Antibiogramm

Scan® 1200
High-Resolution

Ref 437 000

- 6 combinations of lighting and backgrounds
- Motorized background color
- Brightness, contrast and sensitivity are automatically optimized by the software
- Long lasting LED lighting
- **HD color CCD camera, zoom x28, HD japanese lens**
- **Minimum size of detected colony: 0.05 mm**
- **Detects and counts up to 7 colors on the same dish**
- **Inhibition zone reading with EUCAST, CA-SFM, CLSI and editable database**
- **Petrifilm™, Compact Dry™, NeoFilm™/ Sanita-kun™ and filtration membrane reading**

Count these supports

Surface/pour plating

Spiral® plating

Chromogenic Petri dishes

Antibiogramm

Petrifilm™

Compact Dry™

NeoFilm™/ 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.

INCLUDED IN THE SOFTWARE*

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

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

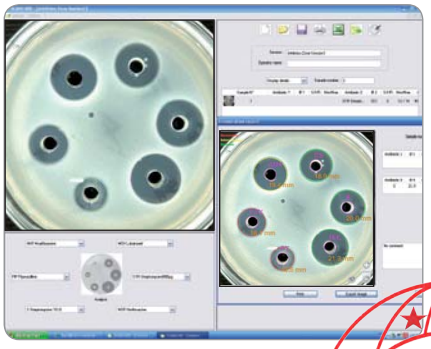
Medical analysis

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

Precision of inhibition zone radius measurement from paper discs : 0.3 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 : 0.3 mm

CFR 21 part 11

GLP GOOD LABORATORY PRACTICE

* on Scan® 500 & Scan® 1200

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Comfort of use

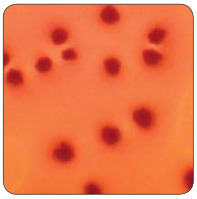
> *High definition live image*

This feature enables total control of colony counting.

Optimum visualization

Enjoy comfortable viewing of the colonies with the unequalled **Dark Field technology**, 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)

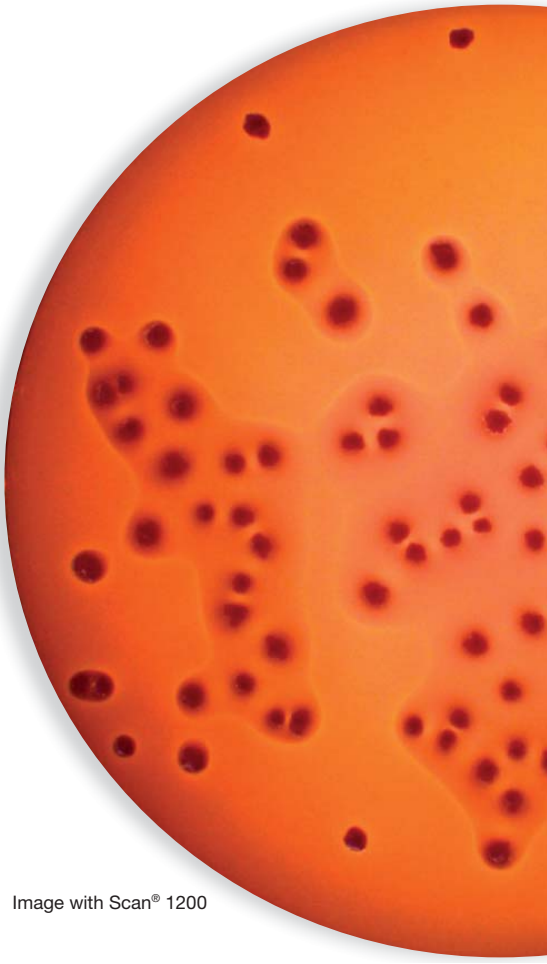


Image with Scan® 1200

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

Fast communication, total traceability

Results harmonization

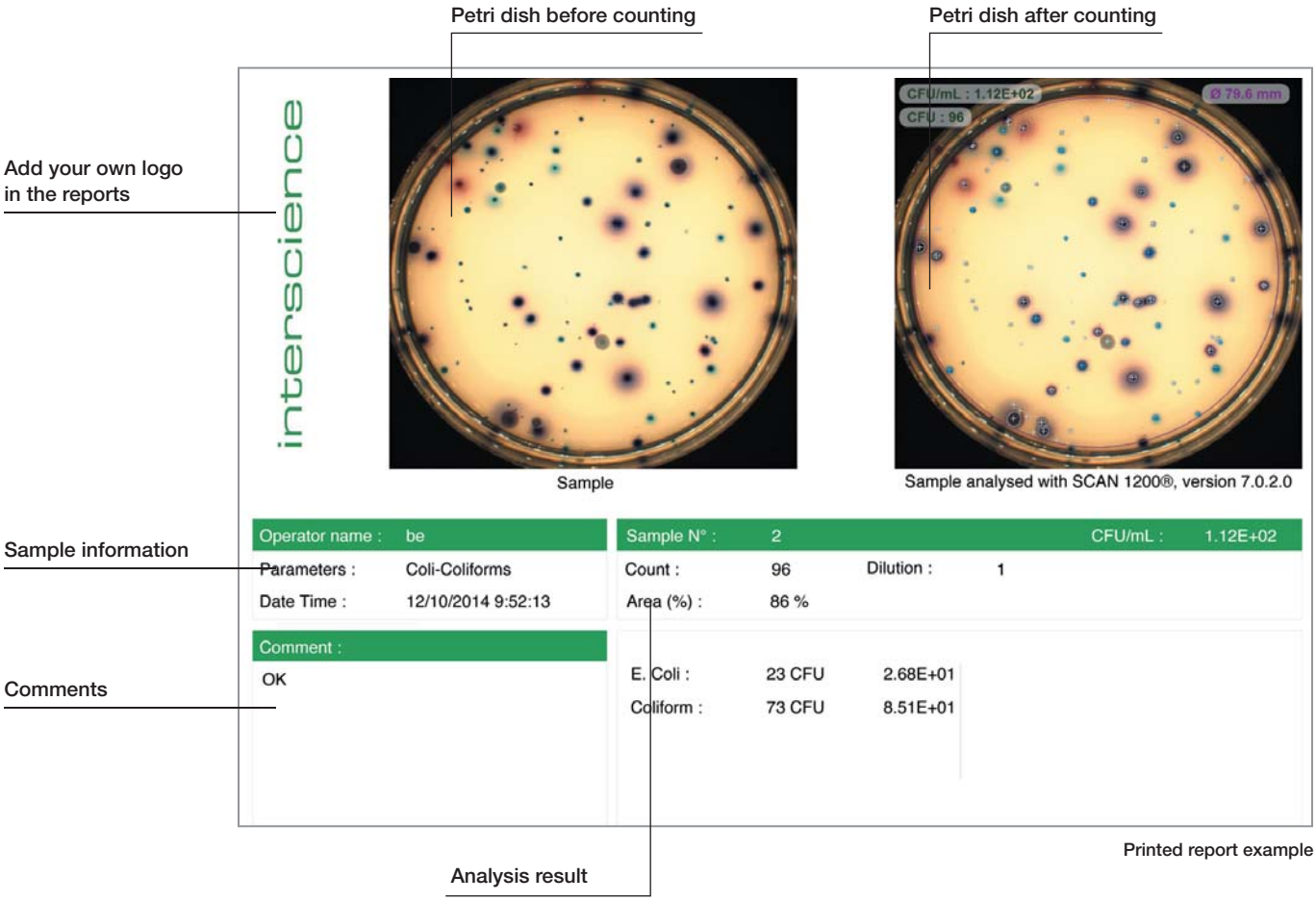
Using the **Scan**® allows more reliable analyses and harmonizes the results within a team.

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

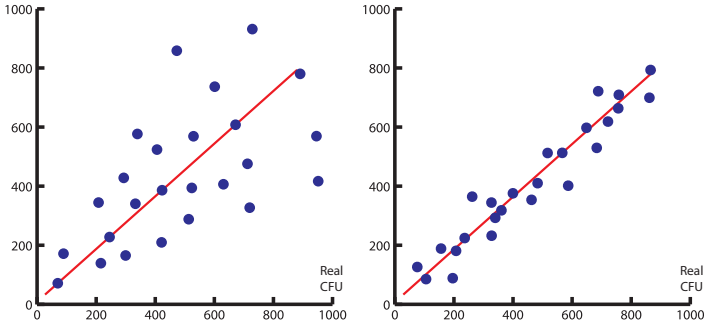
You can export your results to your PC, archive it in Excel™, PDF, SCA or BIO format. You can also export pictures from the camera in JPEG, PNG and BMP format.



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 up to 98% precision for **Scan**® colony counters.



Manual counting:

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

Automatic counting:

Standardized and reproducible results by automatic counting

Study made on Bacillus cereus, Escherichia coli and Lactobacillus casei

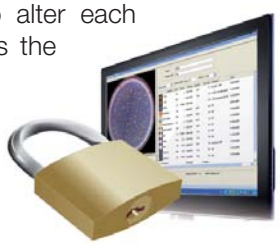
Internal traceability

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** | **dataLink™** (see p. 12)

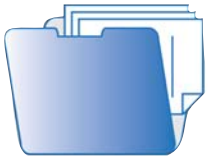
Secure your sessions

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.

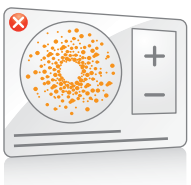


Work sessions saving

PDF export

JPEG, PNG & BMP formats export

Export results to Excel™ to 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.com

Plate & Count System® with data**Link**™ 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. No manual data input.
- **RELIABLE:** 98% repeatable and reproducible results
- **TOTAL TRACEABILITY WITH** data**Link™:** Automatic data saving and reporting

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

- easy**Spiral®: Automatic Spiral® platers**
- **Scan®: Automatic colony counters**
- data**Link™: Traceability system**

HOW DOES IT WORK?

STEP 1

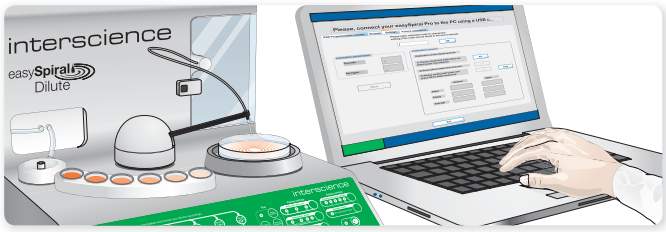
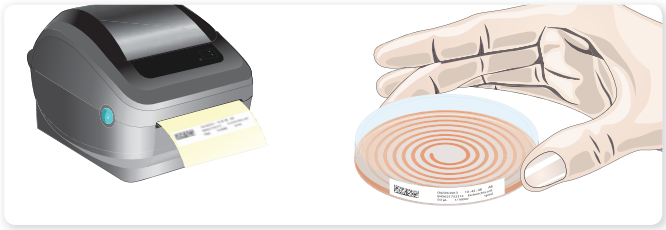


Plate with easy**Spiral Pro®** or easy**Spiral** Dilute®. easy**Spiral®** software collects the plating data.

STEP 2



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

... Incubation 24-72 h

STEP 3

Once the colonies have grown, scan the Datamatrix code. 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

PLATE AND COUNT YOUR PETRI DISHES

From 30 to 1x10^{12} cfu/mL on one single petri dish

easy**Spiral®** automatically plates a sample in **8 seconds**: from 30 to 1x10^{12} CFU/mL on a **single Petri dish** without prior sample dilution. Once the sample is plated and incubated, it is ready to be counted by **Scan®** automatic colony counters. Results are immediately displayed and saved.

Up to 75% savings

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

ISO 7218 | ISO 4833-2 | ISO 15189 | XP V08-034 | NF V08-050 | NF V08-100 | AOAC 977.27 | FDA BAM Bacteriological Analytical Manual | CFR 21 Part 11

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Technical specifications

		Scan® 300	Scan® 500	Scan® 1200
	Reference	436 300	436 000	437 000
Image	Camera	CMOS color camera		HD CCD color camera
	Lens	M12 lens		HD japanese lens
	Digital zoom	x 28		
	Resolution	1 megapixel		1.2 megapixels
	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	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™		
	LIMS connection	✔	✔	✔
	USB connection	✔	✔	✔
	Petri dishes	✔ (55-90 mm)	✔ (55-90 mm)	✔ (55-90 mm)
	Spiral® plating	✔	✔	✔
	Color detection	-	7 colors on the same Petri dish + 1 color to exclude	
	Chromogenic medium	-	✔	✔
	Inhibition zones	-	✔	✔
	Petrifilm™	-	-	✔
	NeoFilm™	-	-	✔
	Compact Dry™	-	-	✔
	Filtration membrane	-	-	✔
	Languages	English, French, Japanese, Chinese, Russian, Spanish, German		
Hardware	Dimensions (w x d x h)	28.5 x 26.5 x 29 cm		28.5 x 26.5 x 37.5 cm
	Weight	8.4 kg		9.4 kg
	Body	Stainless steel		
	Computer connection	USB		
	Power	100-240 V~ 50/60 Hz		
PC requirements	Operating systems	Windows™: Seven™, 8, 10		
	Processor	Intel (recommended) AMD Phenom or better, 2 GHz		
	RAM	3 Go or better		
	Graphic card	AMD or NVIDIA (chipsets are not recommended)		
	Equipment	USB 2.0 slot / CD ROM drive		
	Screen	1280 X 1024 pixels and more		

Delivered with : Scan® software CD-ROM, power cord, 3 validation plates, user guide, quick user guide

ISO 9001 2008 · CE · WEEE 2002/96/EC · RoHS 2002/95/EC · IQ/OQ/PQ · MADE IN FRANCE

Warranty

3 years **Warranty /** 3 years free **Software update (after registration of the warranty form)**

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

Scan® accessories

dataLink™
Ref. : 410 100

Barcode reader
Ref. : 522 000

Adaptor for Petrifilm™*
Ref. : 437 002

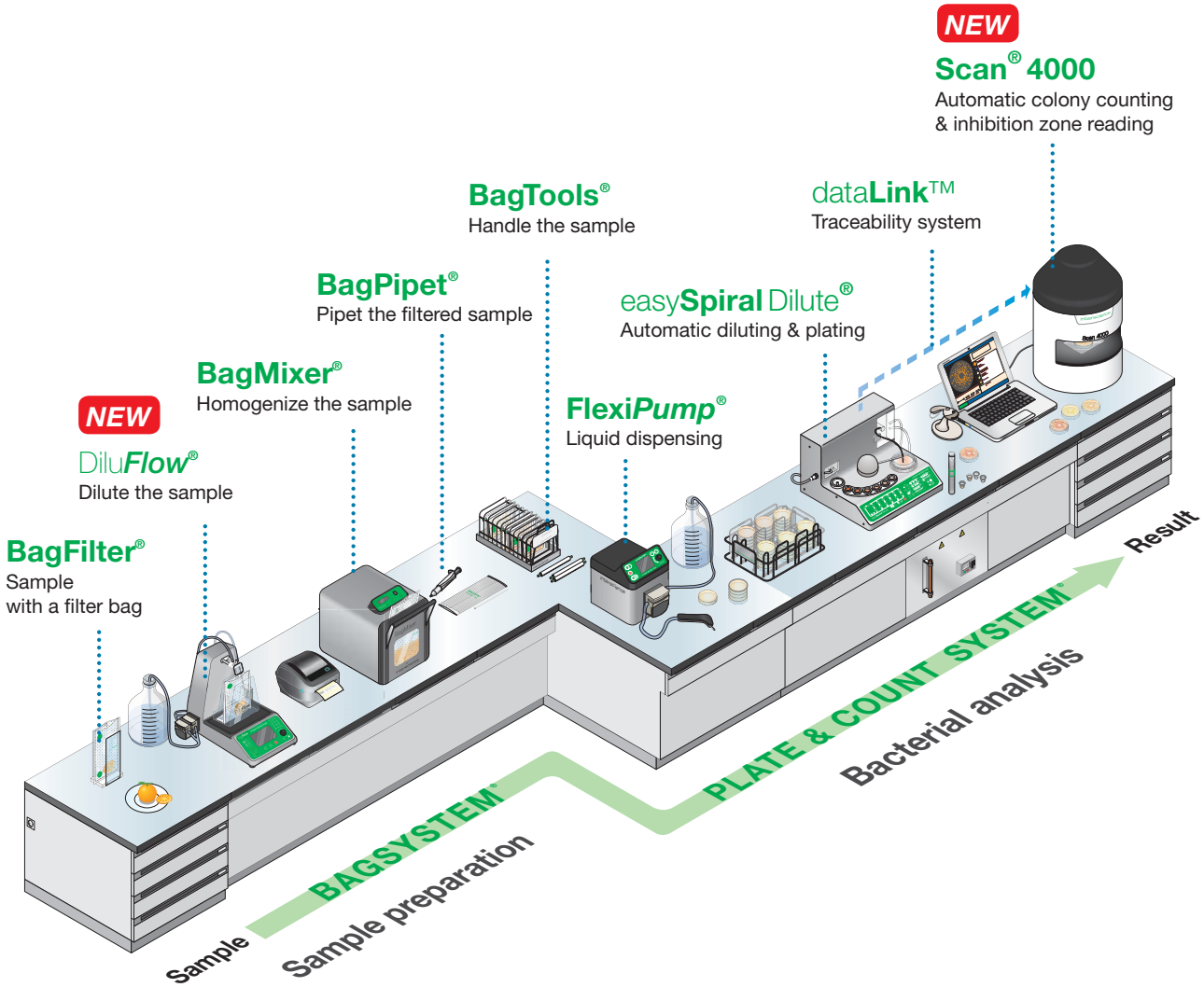
Adaptor for NeoFilm™/ Sanita-kun™*
Ref. : 437 001

Adaptor for Compact Dry™*
Ref. : 437 004

Adaptor for Petri dish (55 mm)
Ref. : 436 005

* Only on Scan® 1200

Discover our complete range for microbiology



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