Scan®

Automatic colony counters & inhibition zone readers

Scan® 300

Scan 500®

Scan 1200°
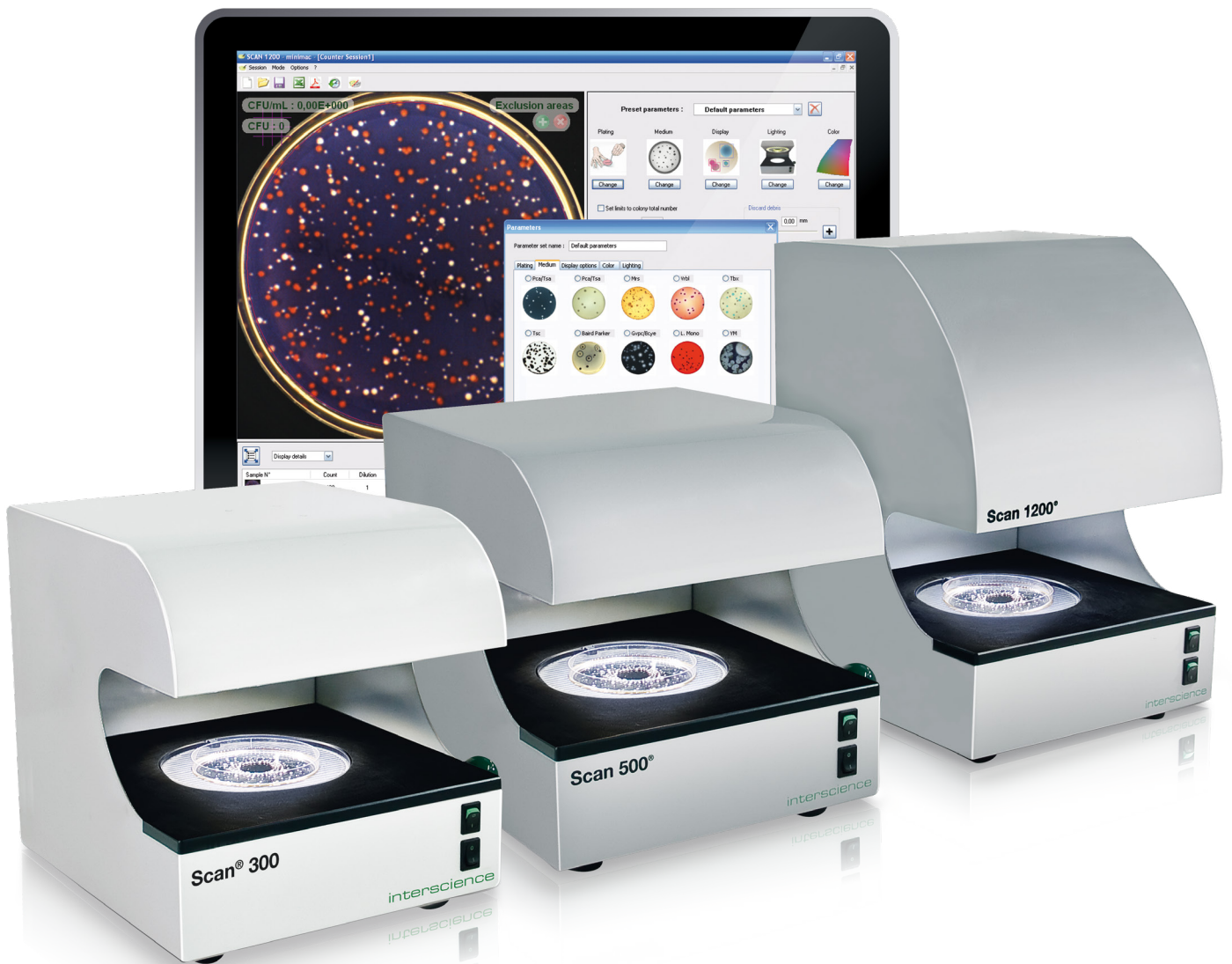
interscience

interscience

Our quality for your lab

- Designer and manufacturer for microbiological analyses
- Made in France
- Colony counting specialist
- Worldwide distribution network

Scan®

High quality analyses, full traceability

Scan® 300, Scan® 500 & Scan® 1200
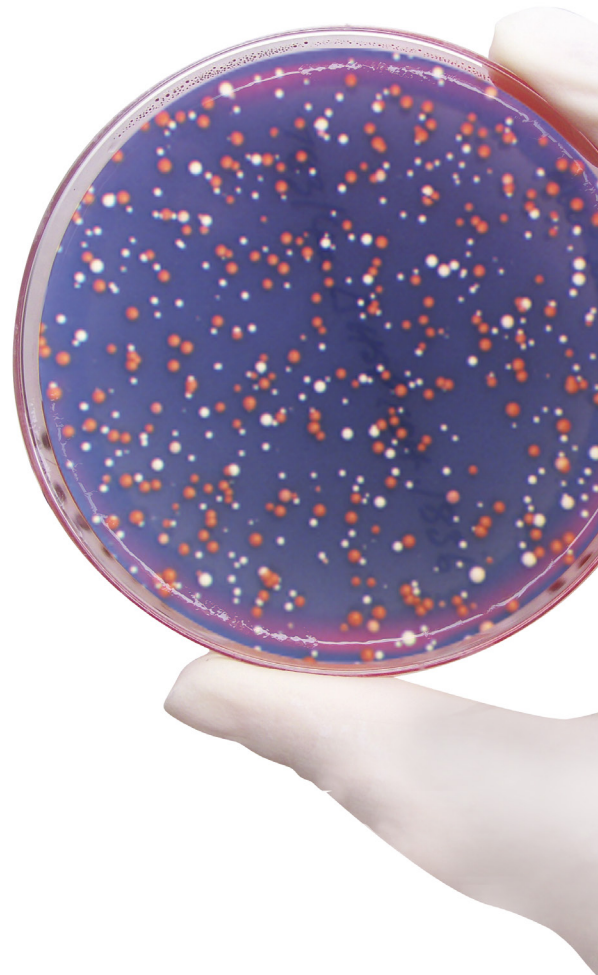High technology automatic colony counters

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**
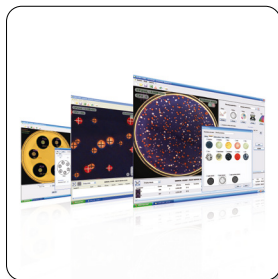- **Cosmetics analyses**

■ Inhibition zones

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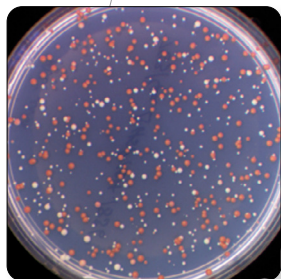 (Tests on lactic ferments & for dairy ingredients industry...)

Scan®

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

High performance

> Count colonies of numerous media
> Reading of chromogenic media[1]:
  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

Sample N°	Count	Dilution	
E COLI	174	1	2.
E COLI	353	1	5.
SPIRAL	47	1/1000	9.
PETRIFILM	89	1	8.
RIDA COUNT	179	1	1.
Filtering Membrane	111	1	1.

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

Scan® 300

interscience

ISO 7218 | AOAC 977.27 | 21 CFR Part 11

SFM Société Française de Microbiologie

EUCAST EUROPEAN COMMITTEE ON ANTIMICROBIAL SUSCEPTIBILITY TESTING
European Society of Clinical Microbiology and Infectious Diseases

CLINICAL AND LABORATORY STANDARDS INSTITUTE

(1) on Scan® 500 & Scan® 1200

Easy-to-use

Counting in 1 click <

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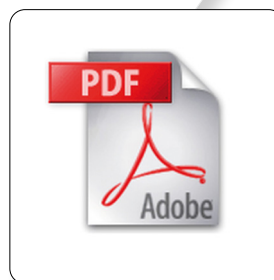
Custom parameters: day, users, project... <

COUNT
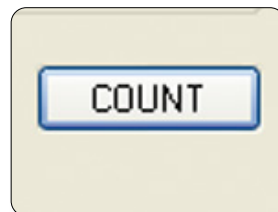
Dark Field technology

Display of every colony <

Optimized lighting & contrast <

Long lasting LED lighting <

6 lighting combinations <

Scan 1200°

Scan 500°

Traceability & reporting

Automatic archiving and printing of data: <
pictures, comments & results

Export to EXCEL™, PDF, JPEG, PNG, BMP <

Barcode reader <

Connection to LIMS network <

PDF Adobe

FREE DEMO VERSION

DOWNLOAD SCAN® SOFTWARE

www.interscience.com

data Link | LIMS | USB | **COLOR** DETECTION | Dark Field | **FREE** UPDATE (2) | **3** YEAR WARRANTY (3)
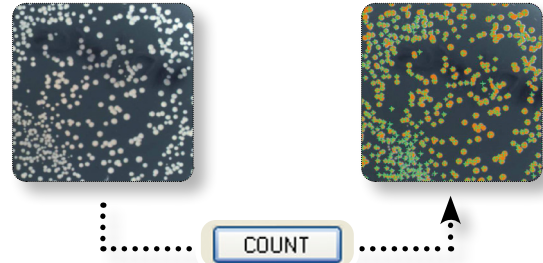
(2) Free update of the software during warranty period (3) After registration of the warranty form
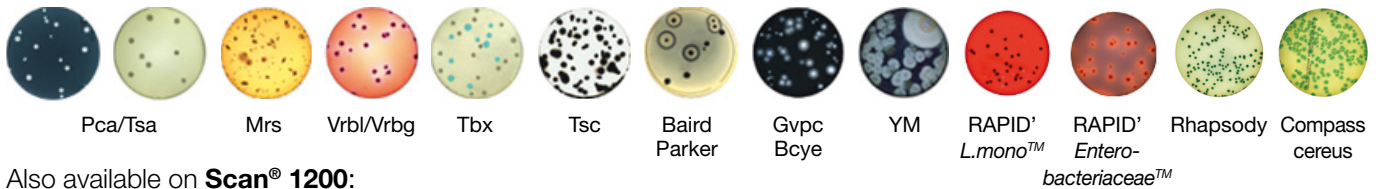
Efficiency & time saving

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.

COUNT

No settings

Choose your pre-set parameters for Petri dishes:

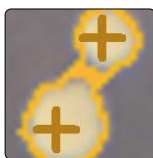| Pca/Tsa | Mrs | Vrbl/Vrbg | Tbx | Tsc | Baird Parker | Gvpc Bcye | YM | RAPID' *L.mono*™ | RAPID' *Entero-bacteriaceae*™ | Rhapsody | Compass cereus |

Also available on **Scan® 1200**:

- MC-Media Pads™: AC, CC, EC/CC, SA
- Petrifilm™: AC, ETB, CC, EC/CC, EC
- Compact Dry™: TC, CF, EC, ETB
- Easy Plate™
- Filtration membranes
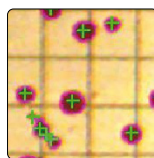
High-performance colony counters

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.
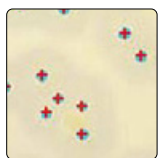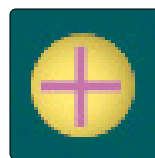

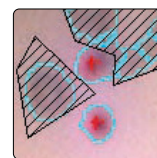| Scan® read all the colonies, even the smallest | Automatic separation of confluent colonies | Automatic elimination of counting grids | Cross on each counted colony | Polygonal exclusion areas | Automated software with manual control |

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.
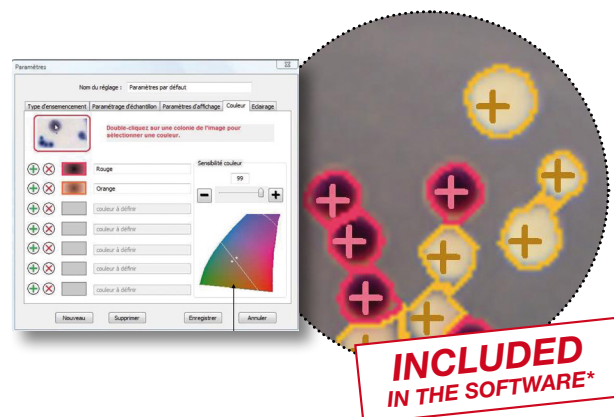
* on Scan® 500 & Scan® 1200

INCLUDED IN THE SOFTWARE*

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
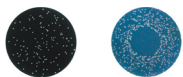

Surface/pour plating

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

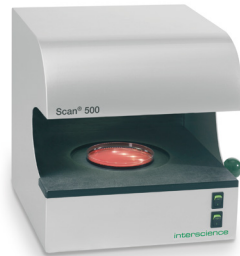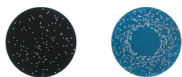Antibiogramm

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

- **Color HD 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**

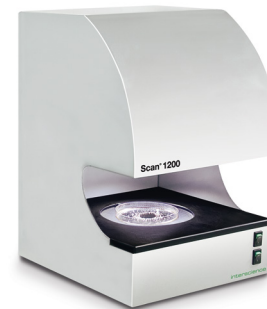- **Petrifilm™, Compact Dry™, MC-Media Pads™, Easy Plate ™ and filtration membrane reading**

Count these supports
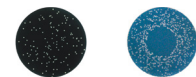
Surface/pour plating

Spiral® plating

Chromogenic Petri dishes

Antibiogramm

Petrifilm™ Compact Dry™ MC-Media Pads™ Easy Plate™

Filtration membranes

Circle

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.
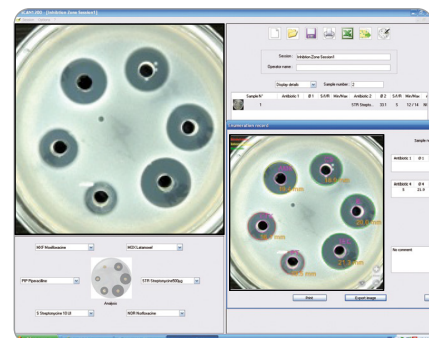
Precision of inhibition zone radius measurement from agar wells : 0.3 mm

21 CFR Part 11   **G L P** GOOD LABORATORY PRACTICE

* on Scan® 500 & Scan® 1200

Comfort of use

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
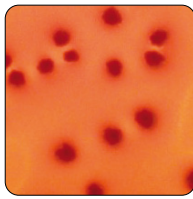
Scan® automatically optimizes contrast, luminosity and sensitivity
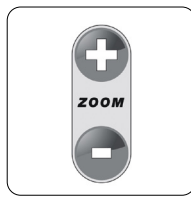
Digital zoom with the mouse wheel (up to x28)
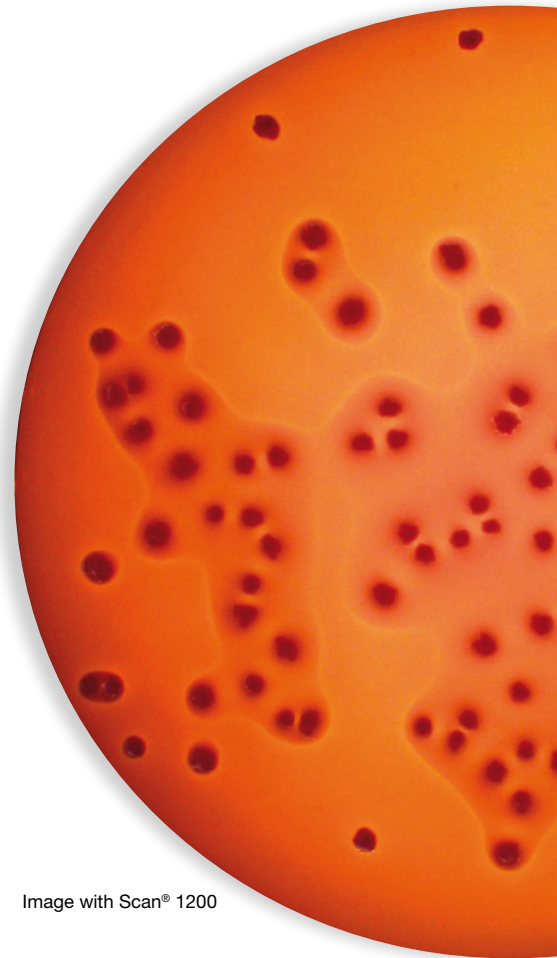
Easy-to-use

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**.

Image with Scan® 1200
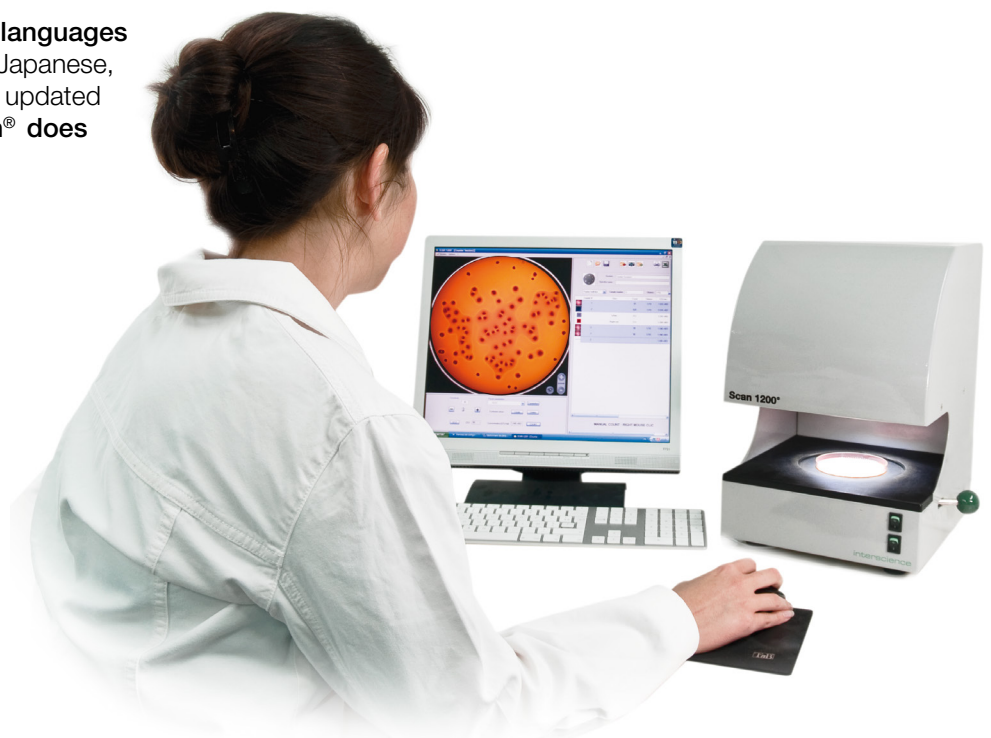
Fast communication, total traceability

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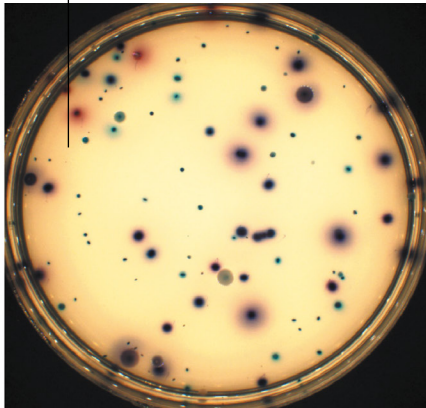
The automatic archiving of data, photos, comments and results ensures total traceability.

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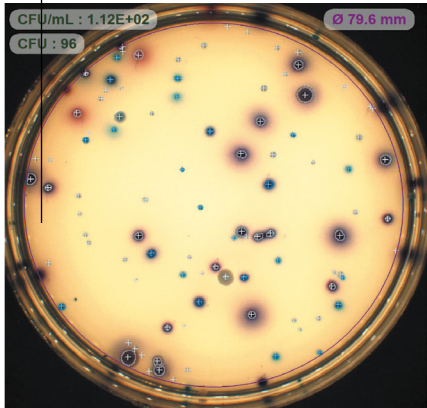
You can export your results to your PC, archive it in Excel™, PDF, SCA or BIO format. You can also export pictures from the camera in JPEG, PNG and BMP format.

Petri dish before counting

Petri dish after counting

CFU/mL : 1.12E+02   Ø 79.6 mm
CFU : 96

Add your own logo in the reports

Sample

Sample analysed with SCAN 1200®, version 7.0.2.0

Sample information

Operator name :	be				CFU/mL :	1.12E+02
		Sample N° :	2			
Parameters :	Coli-Coliforms	Count :	96	Dilution :	1	
Date Time :	12/10/2014 9:52:13	Area (%) :	86 %			

Comment :		
OK	E. Coli :	23 CFU	2.68E+01
	Coliform :	73 CFU	8.51E+01

Comments

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.

A scientific study has proven that **Scan®** colony counters can achieve an accuracy of up to 98%.
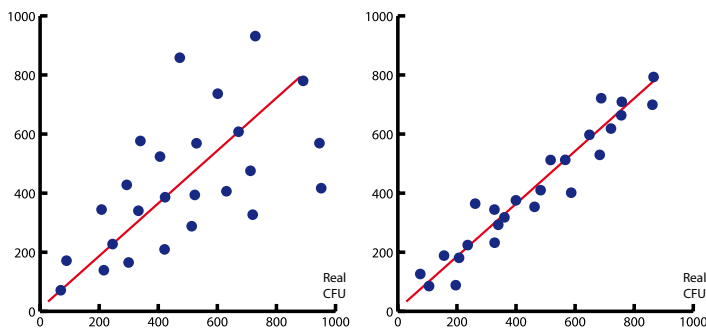
Manual counting:

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.
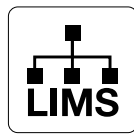
Barcode   Archiving   LIMS connection   dataLink™

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 **21 CFR 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

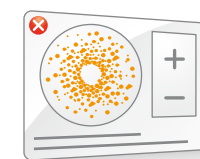
PDF export

JPEG, PNG & BMP formats export

Export results to Excel™ to ensure traceability

Print report from Scan®
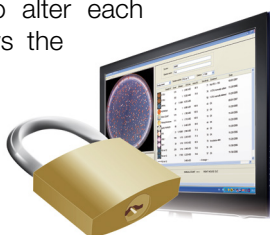
Plate & Count System®
with data**Link**™

INCREASE

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

Scan® 1200

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
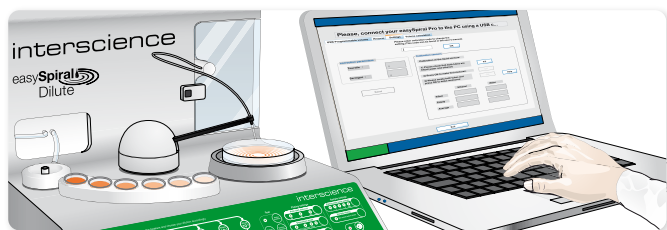
Plating with easy**Spiral Pro**® or easy**Spiral** Dilute®.The supervision software collects data from the plater.

STEP 2

Label printing with the Datamatrix code. Stick the label on the plated Petri dish before incubation.

... Incubation 24-72 h

STEP 3

* Please check LIMS compatibility
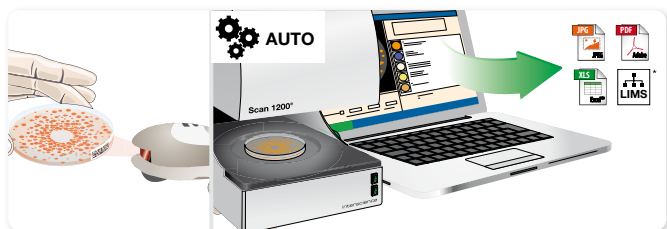
After incubation, scan the Datamatrix code. The **Scan**® colony counter is parametered automatically with the Datamatrix data. Click on "VALIDATE". Export the data.

PLATE AND COUNT YOUR PETRI DISHES

■ From 30 to 1×10^{12} cfu/mL on one single petri dish

easy**Spiral**® automatically plates a sample in **8 seconds**: from 30 to 1×10^{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 | AOAC 977.27 | FDA BAM Bacteriological Analytical Manual | 21 CFR Part 11 |

Technical specifications

		Scan® 300	Scan® 500	Scan® 1200
	Référence	436 300	436 000	437 000
OVERVIEW	Stainless steel body	✔	✔	✔
	LIMS/SIL connection	✔	✔	✔
	USB connection	✔	✔	✔
	Available with dataLink®/dataLink® pro traceability system	✔	✔	✔
	Counting on pour, surface, Spiral and circle plated Petri dishes	✔	✔	✔
	Counting on chromogenic dishes	-	✔	✔
	Counting on Petrifilm™, Compact Dry™, MC-Media Pads™, easyPlate™, filtration membranes	-	-	✔
	Automatic counting	✔	✔	✔
	Inhibition zone reader	-	✔	✔
	Minimal size of colony: 0.05 mm	-	-	✔
COUNTING	Counting	Automatic with manual control		
	Automatic separation of clustered colonies	✔	✔	✔
	Creation of polygonal exclusion zones	✔	✔	✔
	Manual control to add or substract colonies	✔	✔	✔
	Counting time	Up to 1000 colonies per second		
	Minimal size of colony	0.1 mm		0.05 mm
INHIBITION ZONE READING	Antibiotic disc detection	-	Automatic with possibility to add or remove manually antibiotics	
	Automatic detection of antibiogram support	-	Disks (several brands simultaneously), wells, peni-cylinder (steel, plastic)	
	Display resolution	-	± 0.1 mm	
	Inhibition zone measurement accuracy	-	± 0.3 mm	
	Number of antibiotic paper disks	-	Up to 7 antibiotics on a Ø 90 mm Petri dish	
	Reading time	-	7 inhibition zone reading between 1 to 3 seconds	
	Interpretation system	-	CA-SFM Human health / EUCAST / CA-SFM Veterinary / CLSI (Clinical, Laboratory Standards Institute) / Customizable list	
SPECIFICATIONS	Color camera	CMOS		HD CCD
	Lens	M12 Lens		HD japanese lens
	Zoom	x 28		
	Resolution (megapixels)	1		1.2
	White LED Lighting technology	Dark Field		
	LED Lighting system	Automatic with 6 combinations, top and/or bottom light, white or black background		
	Petri dish dimensions	Ø 55 mm - Ø 90 mm		
	Color detection	-	7 colors on the same dish + 1 color to exclude	
	USB Data export	to LIMS, PDF report, jpg, png and bmp images, Excel™ recountable session		
	Data security	Modified data traceability in conformity with 21 CFR part 11		
	Results/traceability	Image / sample number / comments / date / time	Image / sample number / comments / date / time / antibiotic name / bacterial name / diameter read / SIR categorized result with color code / minimum and maximum critical diameter	
	Languages	English, French, Japanese, Chinese, Russian, Spanish, German		
	Warrantie	3-year (**after recording the warranty card**)		
	Spare parts availability	10 years		
	In compliance with	21 CFR Part 11, ISO 7218 and AOAC 977.27		
PC MINIMUM REQUIREMENTS	Operating sytem	Windows™ 10 or 11 (or higher)		
	Processor	Intel i5 2.8 GHz Quad-Core or higher		
	RAM	4 GB for use of the Scan		
	Equipments	1 USB port free		
	Screen	1280 X 1024 pixels or superior higher		
	Software updates after recording the warranty card	3-year		

Scan® 300: delivered with 1 Scan® software, 1 15V power supply, 2 validation plates, 1 user manual.
Scan® 500 / Scan® 1200: delivered with: 1 Scan® software, 1 15V power supply, 1 USB cable, 3 validation plates, 1 user manual.

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

CE | WEEE 2002/96/EC | RoHS 2002/95/EC | IQ/OQ/PQ | MADE IN FRANCE | Product made for INTERSCIENCE by Interlab, an ISO 9001 certified company

Scan® accessories

dataLink™
Ref. : 410 100

Barcode reader
Ref. : 522 000

Adaptor for Petrifilm™*
Ref. : 437 002

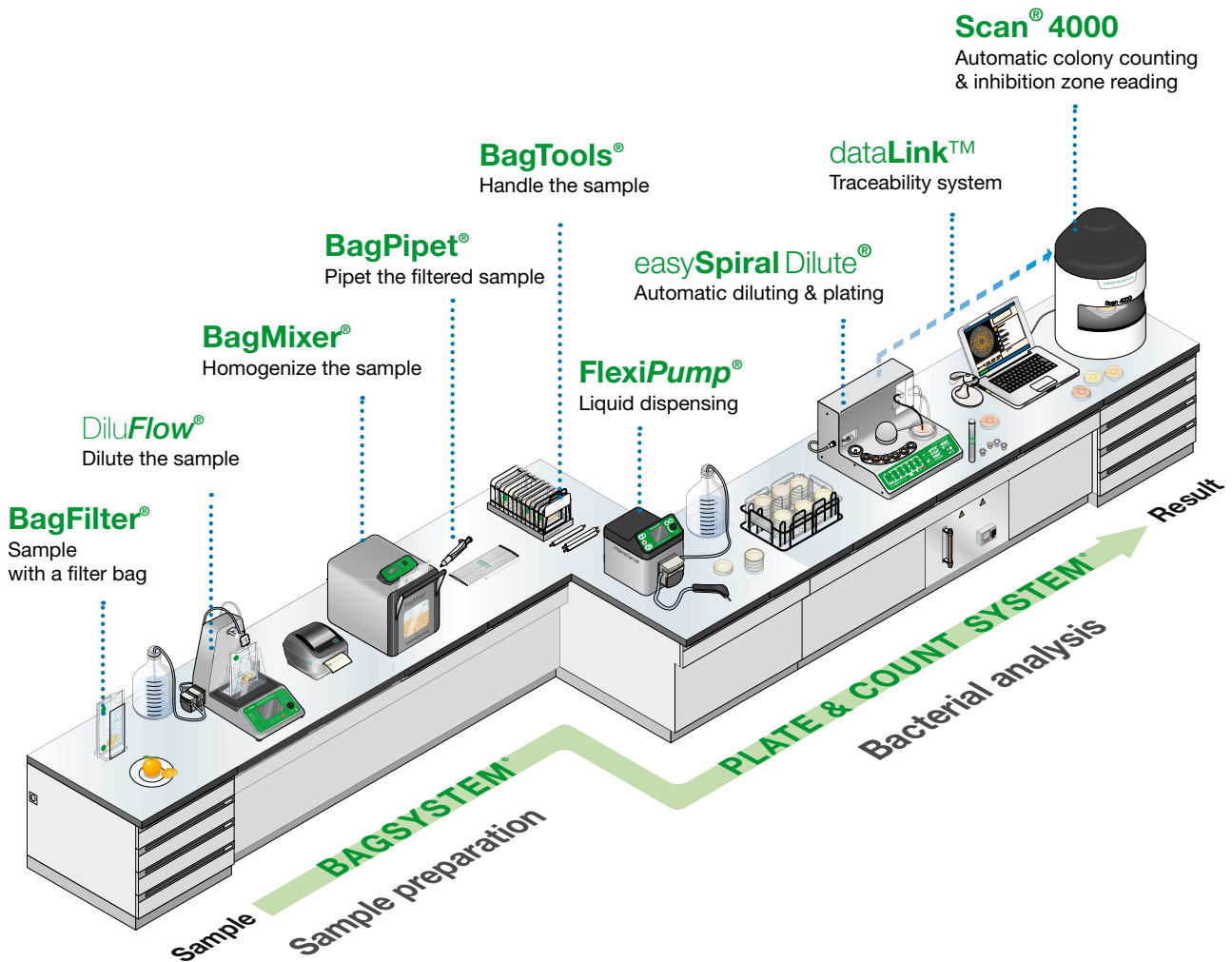**Adaptor for MC-Media Pads™***
Ref. : 437 001

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

Scan® 4000
Automatic colony counting & inhibition zone reading

BagTools®
Handle the sample

dataLink™
Traceability system

BagPipet®
Pipet the filtered sample

easySpiral Dilute®
Automatic diluting & plating

BagMixer®
Homogenize the sample

FlexiPump®
Liquid dispensing

DiluFlow®
Dilute the sample

BagFilter®
Sample with a filter bag

Result

PLATE & COUNT SYSTEM®
Bacterial analysis

BAGSYSTEM®
Sample preparation

Sample

www.interscience.com

DOWNLOAD SCAN® SOFTWARE

www.interscience.com

On our website, find and download:
- Latest information on our products
- Demonstration photos and videos

interscience

PARIS
Phone: +33 (0)1 34 62 62 61
Email: info@interscience.com

FRANKFURT
Phone: +49 611 7238 7770
Email: sales.germany@interscience.com

BOSTON
Phone: +1 781 937 0007
Email: sales.usa@intersciencelab.com

SHANGHAI
Phone: +86 (0)21-64739390
Email: sales.china@interscience.cn

SINGAPORE
Phone: +65 6977 7232
E-mail: sales.asia@interscience.com

TOKYO
Phone: +81 3 6712 9715
E-mail: sales.japan@interscience.com

Your local distributor

www.interscience.com

(EN)