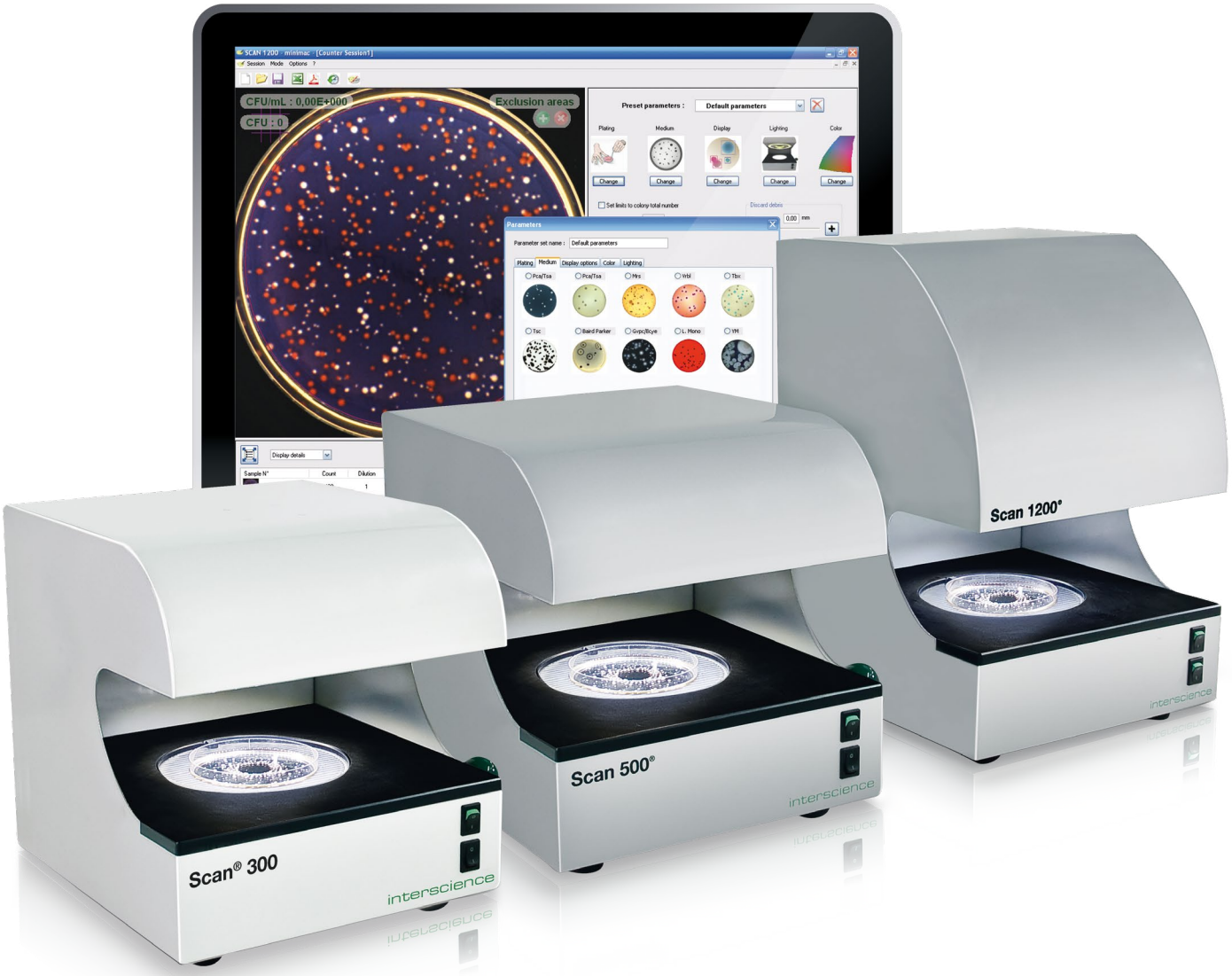
Scan

Automatic colony counters & inhibition zone readers



interscience

interscience

Our quality for your lab

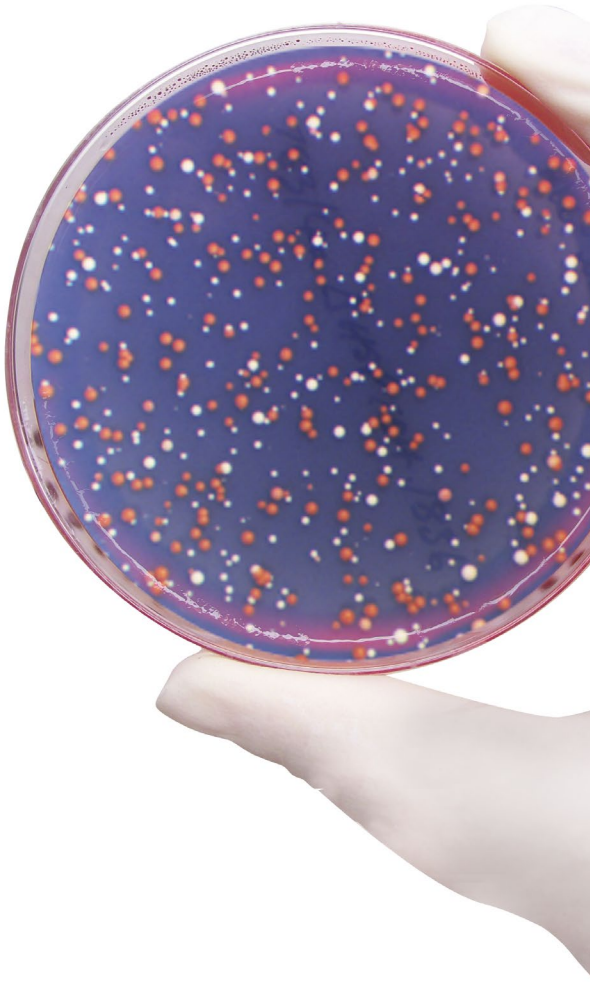
- Designer and manufacturer for microbiological analyses
- Made in France
- Colony counting specialist
- Worldwide distribution network

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

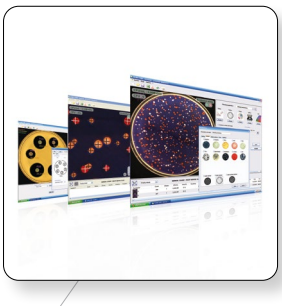
- **Food analyses**
- **Total flora analyses**
- **Aerobic & anaerobic bacterial enumeration, yeasts, lactobacillus...**
- **Pathogenic bacteria research**
- **Environmental research**
- **Pharmaceutical analyses**
- **Medical analyses**
- **Cosmetics analyses**

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...)

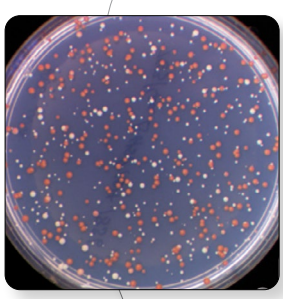
Scan

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



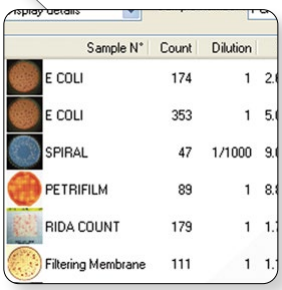
High performance

> Count colonies of numerous media
> Reading of chromogenic media[1]:
Colored differentiation of colonies
(up to 4 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

ISO 7218 | AOAC 977.27 | 21 CFR Part 11

SFM Société Française de Microbiologie | EUCAST European Committee on Antimicrobial Susceptibility Testing | Clinical and Laboratory Standards Institute

(1) on Scan 500 & Scan 1200

Easy-to-use

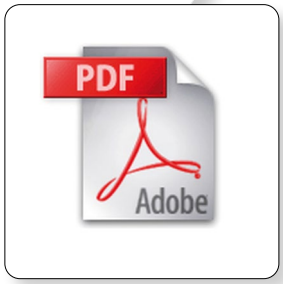
Counting in 1 click <
All functions in 1 single window <
Custom parameters: day, users, project... <

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, PNG, BMP <
Barcode reader <
Connection to LIMS network <



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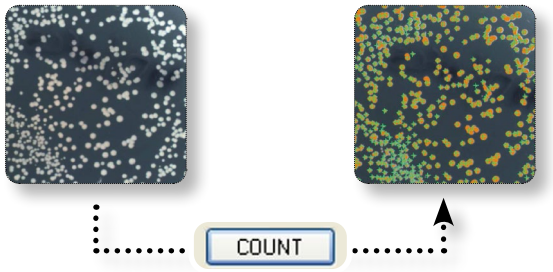
data Link | LIMS | USB | COLOR DETECTION | Dark Field | FREE UPDATE (2) | 3 YEAR WARRANTY (3)

(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.



Easy settings

Choose your pre-set parameters for Petri dishes:

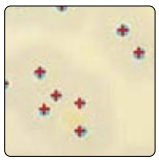
Pca/Tsa | Mrs | Vrbl/Vrbg | Tbx | Tsc | Baird Parker | Gvpc Bcye | YM | RAPID' *L.mono*™ | RAPID' *Entero-bacteriaceae*™ | Rhapsody | Compass cereus

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

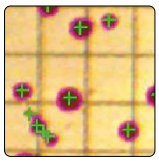
High-performance colony counters

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.



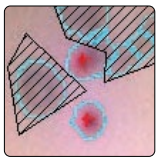
Scan read all the colonies, even the smallest

Automatic separation of confluent colonies



Automatic elimination of counting grids

Cross on each counted colony



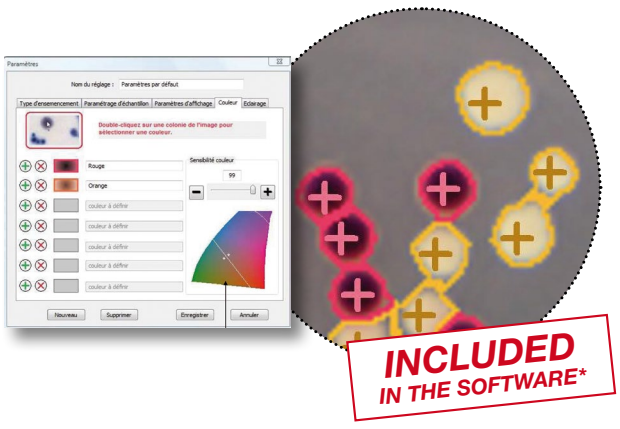
Polygonal exclusion areas

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 4 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

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 media

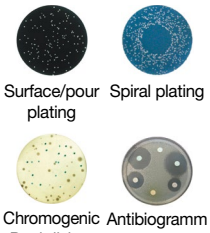
Surface/pour plating | Spiral plating

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 media



Surface/pour plating | Spiral plating

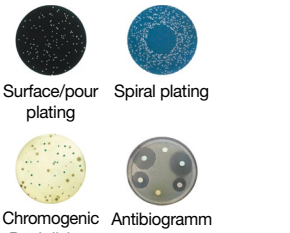
Chromogenic Petri dishes | Antibiogramm

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 media



Surface/pour plating | Spiral plating

Chromogenic Petri dishes | Antibiogramm

Petrifilm™ Compact Dry™ MC-Media Pads™ Easy Plate™ | Filtration membranes | Circle

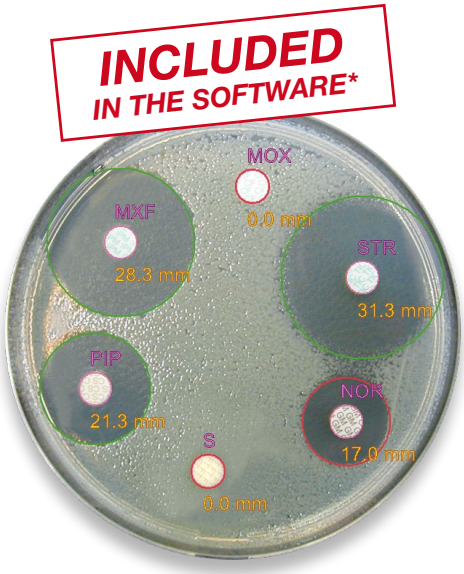
Inhibition zone from paper discs, agar wells & peni cylinders

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.



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

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

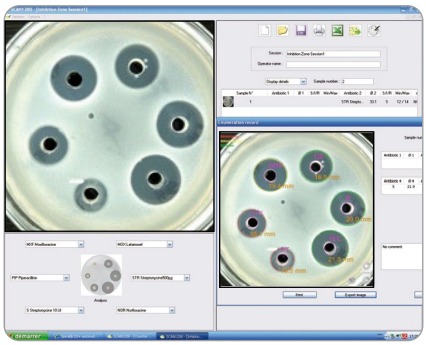
Medical analysis

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

GLP GOOD LABORATORY PRACTICE

* on Scan 500 & Scan 1200

Comfort of use

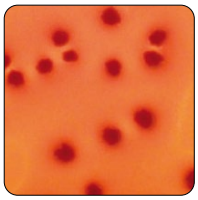
> *High definition live image*

This feature enables total control of colony counting.

Optimal 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)

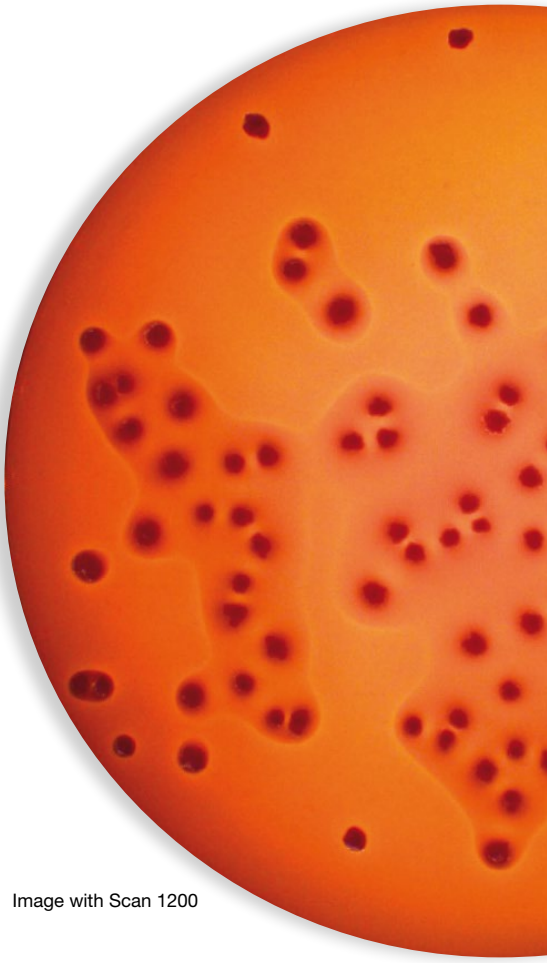


Image with Scan 1200

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

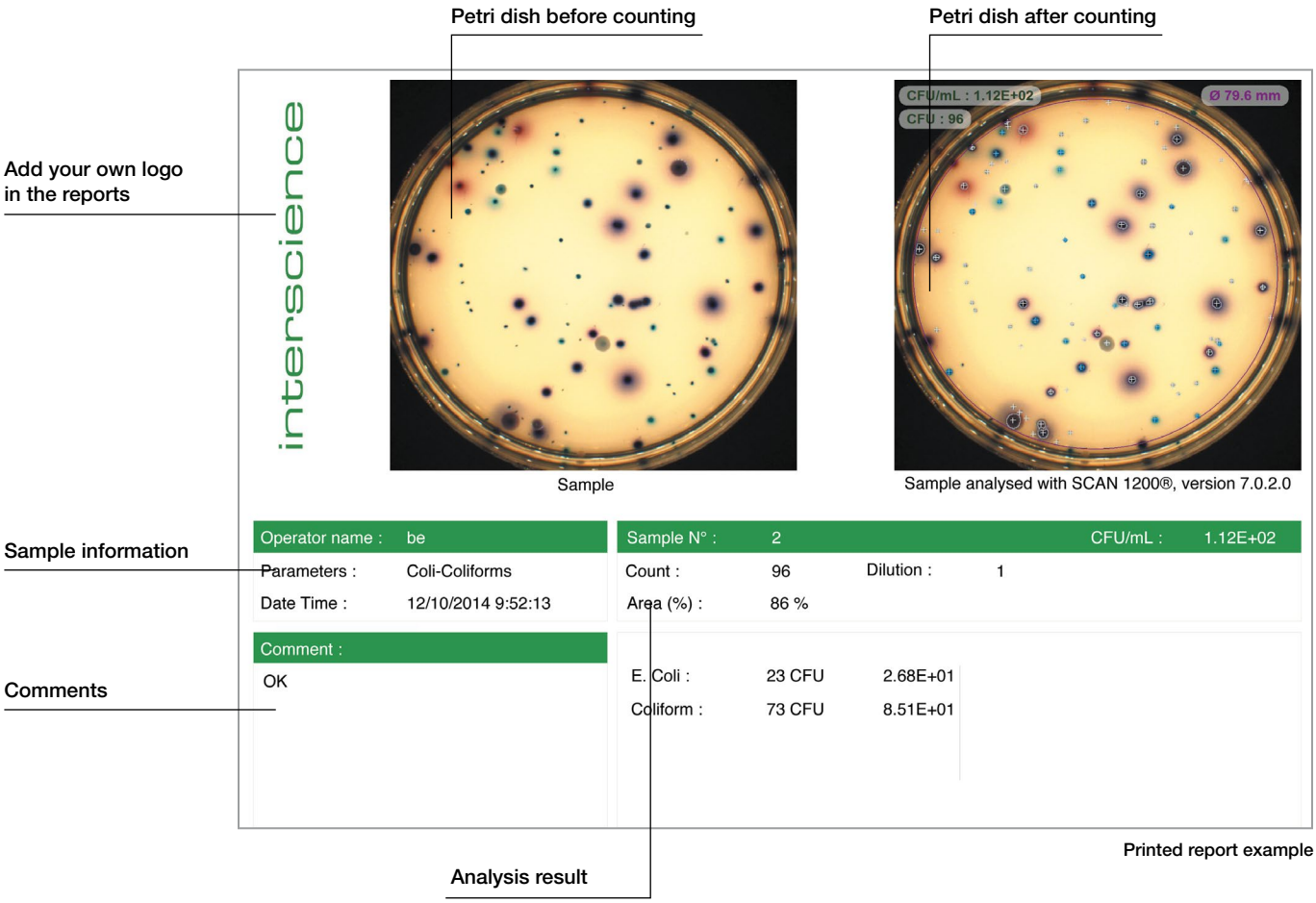
Using the **Scan** allows more reliable analyses and harmonizes the results within a team.

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

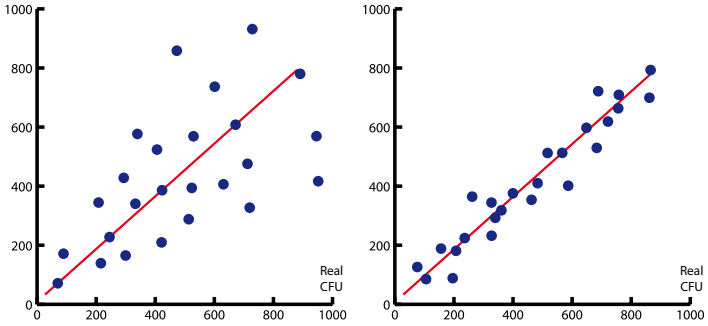
You can export your results to your PC, archive it in Excel™, PDF, SCA or BIO format. You can also export pictures from the camera in JPEG, PNG and BMP format.



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 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

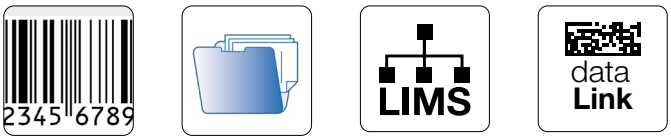
Automatic counting:

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.



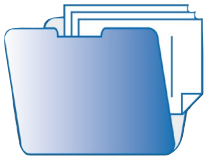
Barcode | **Archiving** | **LIMS connection** | **dataLink** (see p. 12)

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 **21 CFR part 11**: system securization, operational controls and documentation management.

> *External traceability*

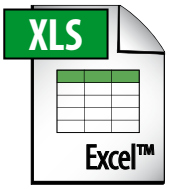
Scan software provides numerous possibilities to easily and quickly export your results.



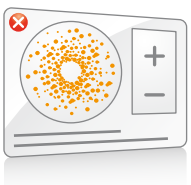
Work sessions saving

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 capacities with
easy**Spiral** & **Scan!**

Plate & Count System with data**Link** enables automatic plating and colony counting with full traceability!

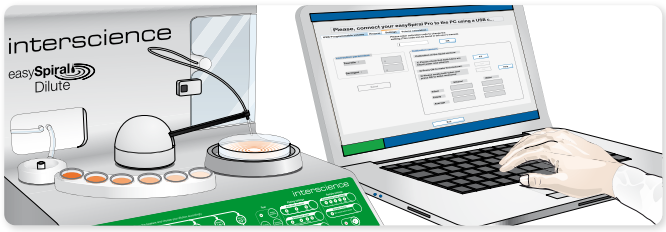
- **INCREDIBLE SAVINGS:** Save up to 75% in time, consumables and bench space
- **FAST:** Full plating cycle in 25 seconds and counting in 1 click. No manual data input.
- **RELIABLE:** 98% repeatable and reproducible results
- **TOTAL TRACEABILITY WITH** data**Link:** Automatic data saving and reporting

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

- easy**Spiral: Automatic Spiral platers**
- **Scan: Automatic colony counters**
- data**Link: Petri dish labeling solution**

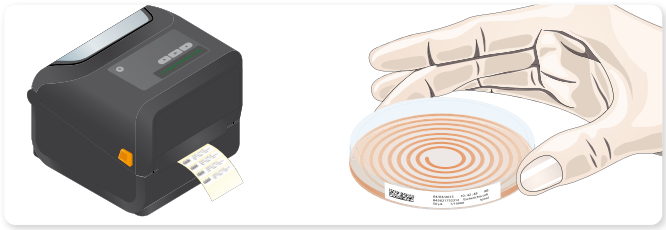
HOW DOES IT WORK?

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

After incubation, scan the Datamatrix code. The **Scan** colony counter is parametered automatically with the Datamatrix data. Click on “VALIDATE”. 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 | AOAC 977.27 | FDA BAM Bacteriological Analytical Manual | 21 CFR Part 11

Technical specifications

	Scan 300	Scan 500	Scan 1200
Reference	**436 300**	**436 000**	**437 000**
OVERVIEW			
Painted stainless steel shell	✓	✓	✓
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 Pad™, Easy Plate™, filtration membranes	-	-	✓
Automatic counting	✓	✓	✓
Inhibition zone reading	-	✓	✓
COUNTING			
Counting	Automatic with manual control (adding/removing colonies)		
Automatic separation of clustered colonies	✓	✓	✓
Creation of polygonal exclusion zones	✓	✓	✓
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 manually add or remove	
Automatic detection of antibiogram support	-	Disks (several brands simultaneously), wells	
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 s	
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 size	Ø 55 mm - Ø 90 mm		
Color detection	-	4 colors on the same dish + 2 colors to exclude	
Voltage - Frequencies	100-240 V~ 50-60 Hz		
Warranty	3-year (after recording the warranty)		
Spare parts availability	10 years		
In compliance with	21 CFR Part 11, ISO 7218 and AOAC 977.27		
SOFTWARE			
Languages	English, French, Japanese, Chinese, Russian, Spanish, German		
License type	Perpetual		
Software updates	3 years excluding qualification (after recording the warranty)		
User account management	Local or LDAP		
TRACEABILITY			
USB Data export	Recountable session, Excel™, PDF report, jpg, png and bmp images		
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 / measured diameter / result categorized according to standards / minimum and maximum critical diameter	
PC MINIMUM REQUIREMENTS			
Operating sytem	Windows™ 10 or 11 (or higher)		
Processor	Intel i5, 13th or 14th generation minimum		
RAM	4 GB for use of the Scan		
Equipments	USB port free		
Screen	1280 X 1024 pixels or higher		

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

Certified production

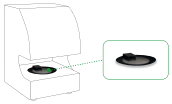
WEEE 2002/96/EC · RoHS 2002/95/EC · MADE IN FRANCE · CE · UKCA

Product made for INTERSCIENCE by Interlab, an ISO 9001 certified company.

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

Scan accessories

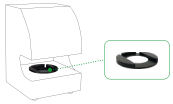
Barcode reader
Ref.: 522 000



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

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

Adaptor for Petrifilm™***
Ref.: 437 002



Adaptor for Easy Plate™***
Ref.: 437 003

Adaptor for Compact Dry™***
Ref.: 437 004

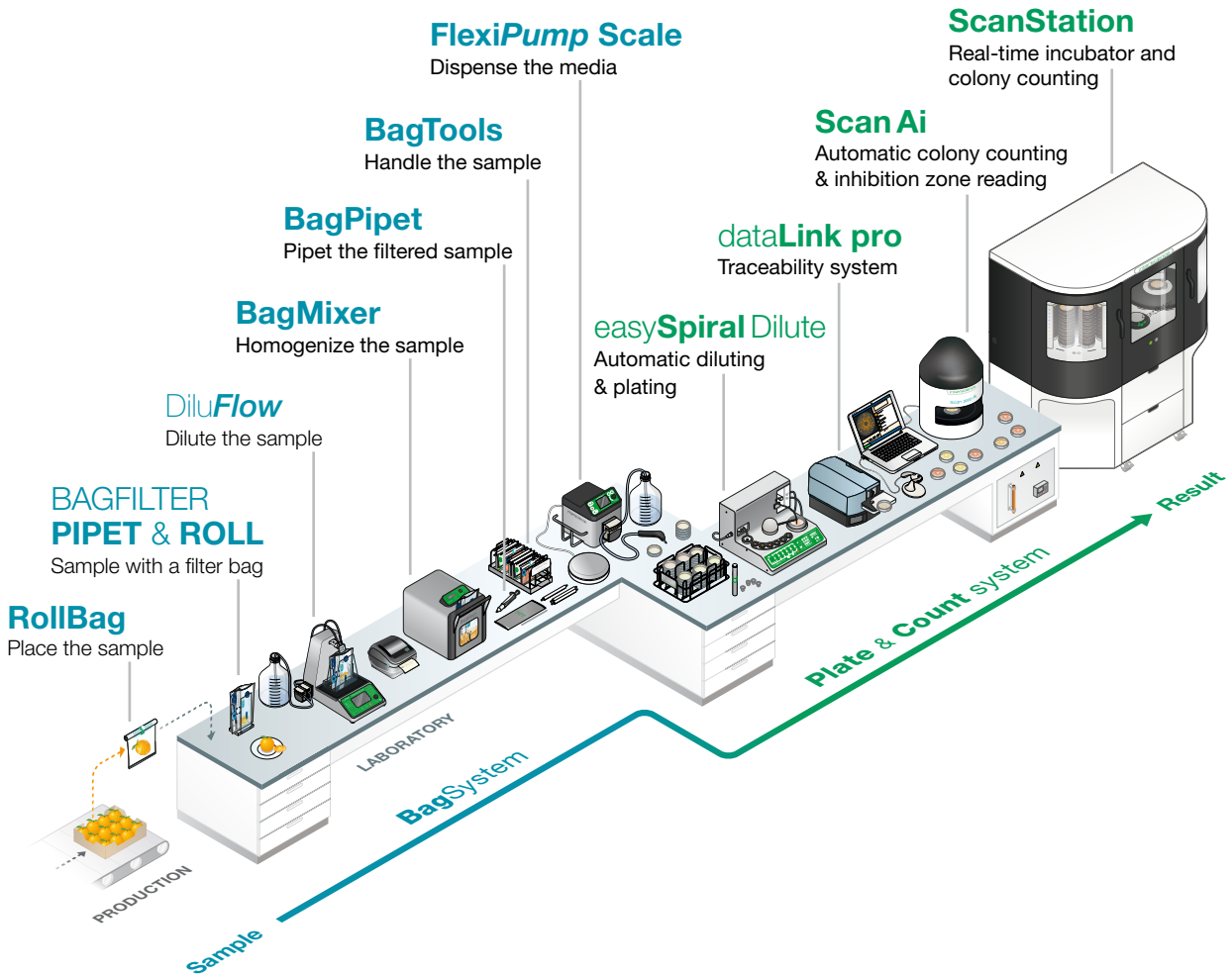
Validation plates for counter and reader**
Ref.: 437 006

Certified validation plates for counter and reader**
Ref.: 437 007

Validation plates for Scan 300*
Ref.: 437 008

* On Scan 300 / ** On Scan 500 & Scan 1200 / *** On Scan 1200

Discover our complete range for microbiology



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FREE DEMO VERSION

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