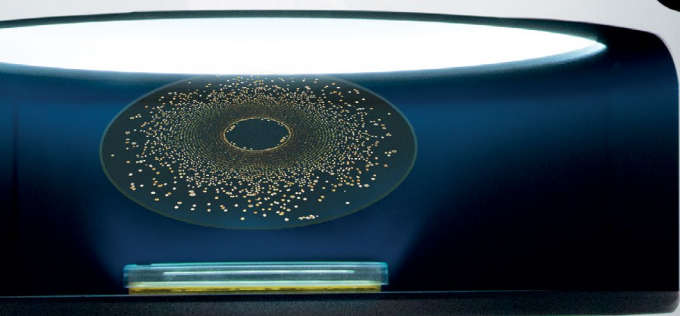
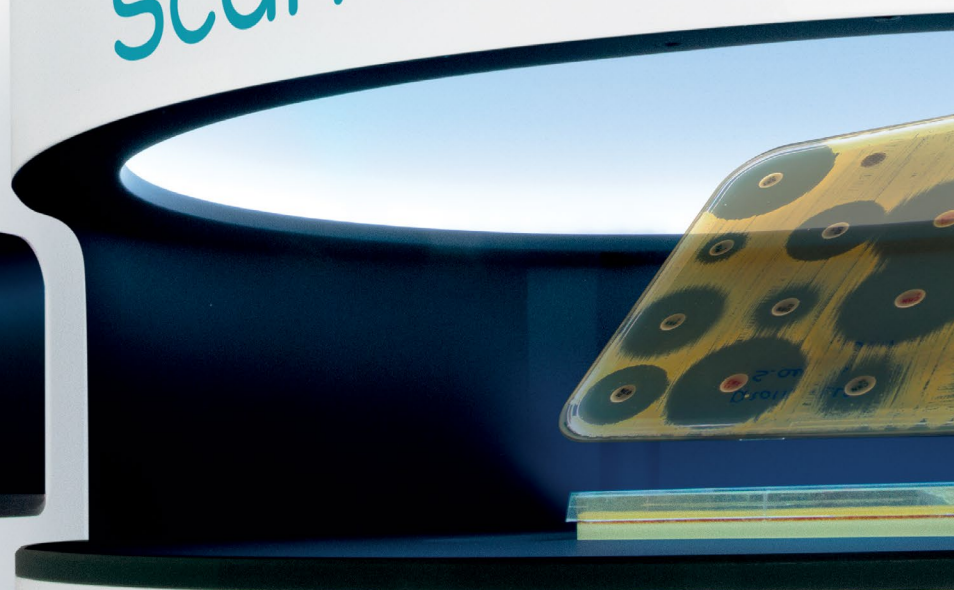


AI-powered
precision
for colony
counting ●

Scan 3000 Ai



interscience
Scan 5000 Ai



Scan Ai

Automatic AI colony counters
& inhibition zone readers

interscience



20 years colony counting expertise

- Wide range of colony counters: manual, semi-auto, auto, real-time
- Dedicated AI R&D team since 2019
- More than 5000 **Scan**® equipment used worldwide every day
- Database of 1 million annotated images

SCIENTIFIC
EQUIPMENT
MANUFACTURER

MADE IN FRANCE



A leap forward in counting performance

The **Scan® Ai** automatic colony counter automates and standardizes the counting of characteristic and non-characteristic colonies for microbiological analyses.

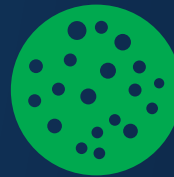
The power of Artificial Intelligence in the **Scan® Ai** automatic counter boosts Petri dish analysis with unrivalled speed and accuracy. **The resulting accuracy is 25% higher than that of a standard counter.**



Automatic colony counting in 1 second



Consistent accuracy up to 98%



400 plates counted per hour



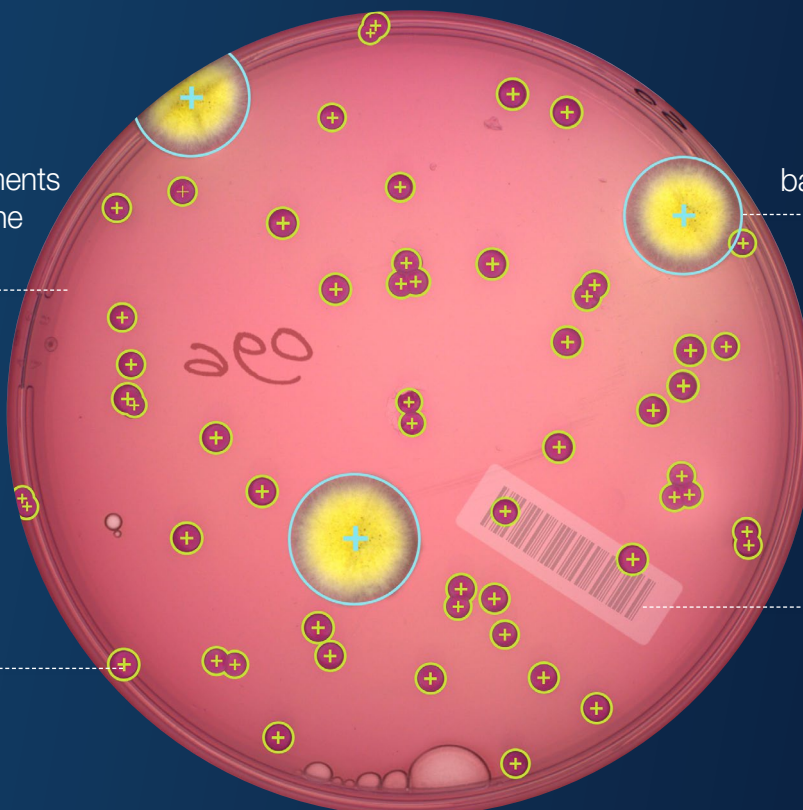
Traceability of results

Unrivalled precision with AI

Automatic counting ignores artifacts and counts on 100% of the plate. Artificial intelligence accurately detects and counts colonies, while distinguishing between different types of micro-organisms (bacteria, yeast, mold).

Counting improvements by AI based machine learning

Counting on 100% of the surface of the plate



Clear distinction between bacteria, yeasts and molds

Discrimination of artifacts (bubbles, marking, stickers...)

The combination of powerful software and an ultra-precise counter

Ultra HD optics

12.2 megapixel ultra HD camera⁽¹⁾
x 69 digital zoom

Secure data

Works without an internet connection
Data security and confidentiality
Computer data stored locally



Data integrity

Bi-directional connection
Save and export results
Double electronic signature
Audit trail



IN ACCORDANCE WITH

ISO
7218

AOAC
977.27

21 CFR
Part 11

(1) Only valid on Scan® 5000 Ai, please refer to technical specifications.

AI colony counting

- 1000 colonies in 1 second
- Up to 98% counting accuracy
- AI learning from annotated images

Inhibition zone reader

- Up to 16 antibiotics on a plate in 2 to 4 s⁽¹⁾
- Measurement accuracy: ± 0.1 mm⁽¹⁾
- Results categorized RIS



Reflection- and shadow-free lighting

Diffusing White LED Dome lighting highlights colonies on the surface, pour plates and around the edges of the plate

Wide reading range

Round Petri dishes from \varnothing 55 to 150 mm⁽¹⁾
 120 mm square Petri dishes⁽¹⁾
 Compatible with multiple growth medias

Sturdy

Robust frame in 304L stainless steel
 Impact-resistant glass
 3-year parts and labor warranty
 (after registration)

INTEGRATED DATABASE



25% greater accuracy than standard counters

Total count accuracy

73%

Classic counter

95%

Scan Ai

TBX positive colonies accuracy

73%

Classic counter

95%

Scan Ai

MRS accuracy

70%

Classic counter

95%

Scan Ai

VRBL accuracy

57%

Classic counter

89%

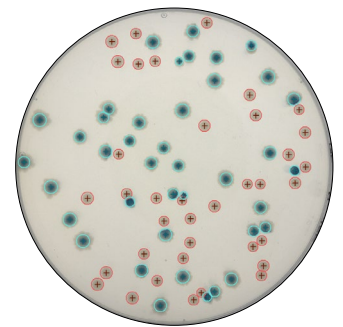
Scan Ai

Applications

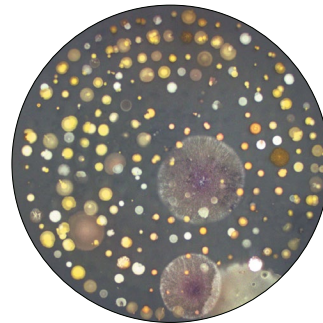
Artificial intelligence allows **Scan® Ai** to count a wide range of media, techniques and applications and different culture media for **QC**. The equipment can count Spiral® plates and Petrifilm™ with high precision and repeatability. Interpretation of chromogenic media is also available.

Integrated AI analysis of a wide range of different environments, techniques and growing media with accuracy and repeatability, including filtration membranes for liquid samples and **EM** contact plates. AI classification of different colony types, including bacteria, yeasts and molds, is also available.

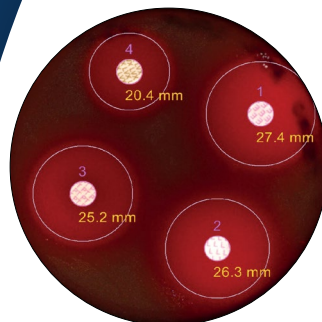
Scan® Ai reads round plates with up to 12 antibiotic discs and square plates with up to 16 discs⁽¹⁾



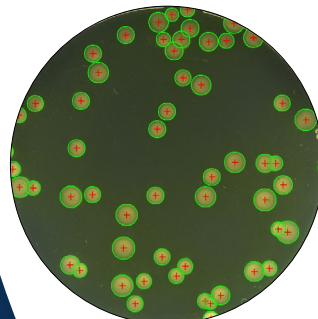
TBX



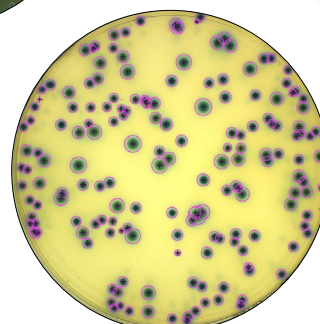
Air analysis
on TSA



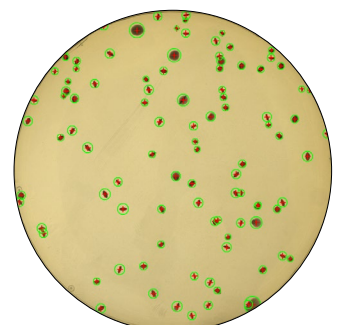
Discs
on blood agar



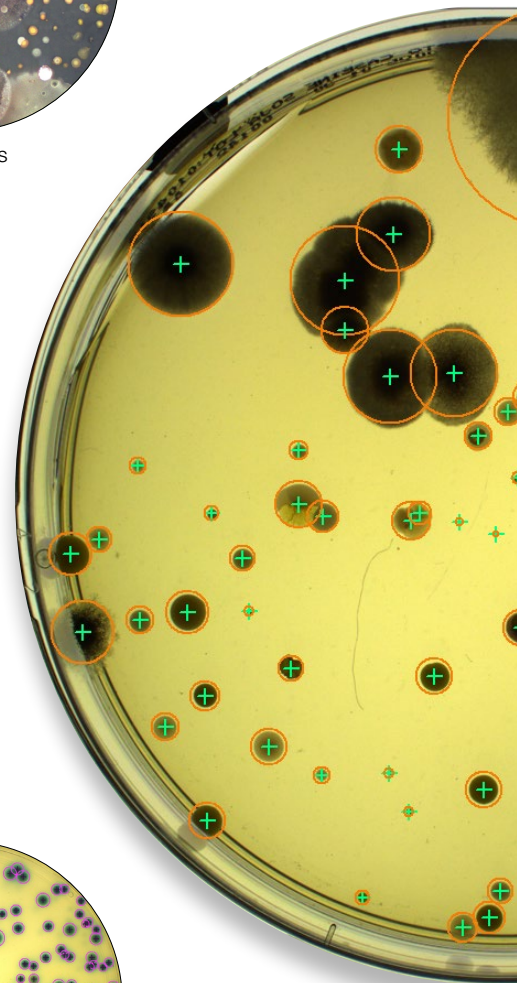
TSA



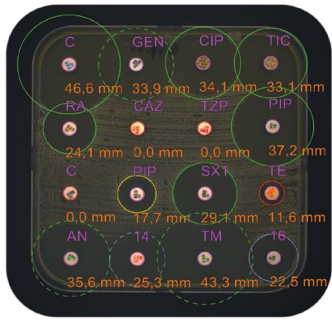
Rhapsody



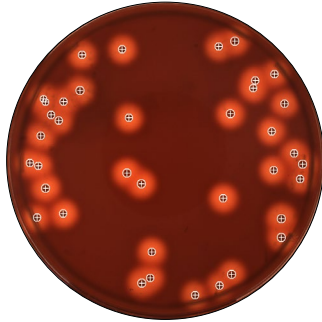
MRS



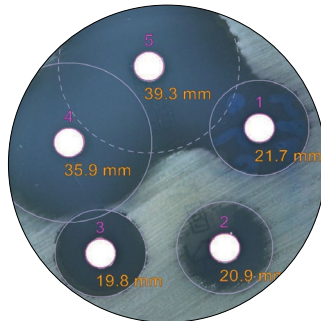
Comprehensive performance of pre-trained models



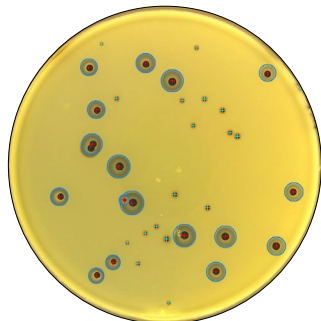
Square Petri dishes 120 mm⁽¹⁾



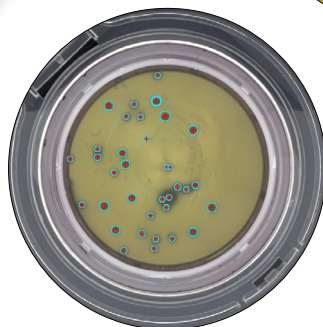
Blood agar



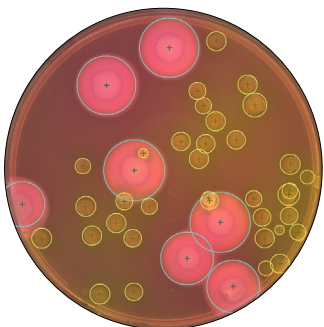
Discs on agar



BAIRD PARKER



Milliflex Oasis™



Mossel

The AI of **Scan® Ai** automatic counter has been trained on over a million dishes and annotated images from a wide range of industries.

We have integrated counting models on a large range of existing culture media:

- Total count (PCA/TSA)
- Coliforms
- Enterobacteriaceae (VRBL/VRBG)
- Escherichia Coli* (TBX)
- Lactobacilles (MRS)
- Staphylococci (BAIRD-PARKER, BAIRD-PARKER RPF)
- Mossel
- Symphony
- Yeasts / molds
- GVPC
- Compass *Bacillus Cereus*
- Rhapsody
- SDA
- PDA
- Blood Agar
- Milliflex Oasis™ (TSA, SDA, R2A).

Scan® Ai reads round Petri dishes up to 150 mm in diameter, and square 120 mm⁽¹⁾ plates.

It offers a wide choice of media and plates for greater flexibility:
 Surface/ Pour / Mass / Spiral® / Circle
 Petrifilm™, CompactDry™
 chromogenic media,
 MC-Media Pads™, Easy Plate™
 Filtration membranes, Contact plates,
 ATB on 120 mm square plates
 ATB on blood agar

Performance and safety with locked AI



Continuous improvements in AI performance

Using artificial intelligence (AI) learning to count with convolutional neural networks (CNN) is transforming the field of colony counting.

When you choose **Scan® Ai**, you benefit from **high-performance, scalable automatic colony counting at the cutting edge of AI technology.**

Enhanced safety with locked AI

The **Scan® Ai** system works autonomously, **without the need for an Internet connection.**

With locked Artificial Intelligence, **data is stored locally** for an even higher level of security. Local storage offers total control over information, keeping your data secure.



Update according to your technical and standards constraints



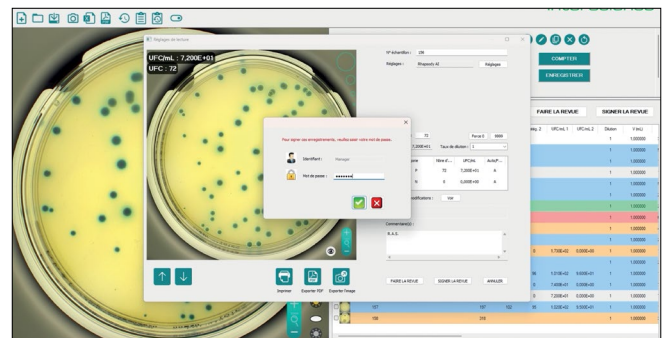
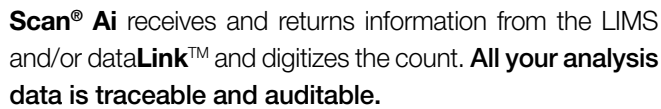
Keep control of your analyses
Existing qualifications are retained



Evolve neural models with the analytical and matrix ecosystem



Software updates and AI models are available at your convenience



This solution ensures data reliability and security in compliance with FDA guidelines, 21 CFR Part 11 and GMP (Good Manufacturing Practices) Annex 11.



08/09/2022 14:48:50 123456 INT
Conformes 50µl. 1 exp

Set the label parameters which will be integrated on the sticker on the side of the plate.

Scan[®] Ai range

INNOVATION AWARDS
• 2025 WINNER •
 Forum Labo Show, Paris



Scan[®] 3000 Ai
 Automatic AI colony counter
 & inhibition zone reader
 Artificial intelligence
 Ref. 434 300



Scan[®] 5000 Ai
 Automatic AI colony counter
 & inhibition zone reader
 Artificial Intelligence for large Petri dishes
 Ref. 434 500

WEIGHTS AND DIMENSIONS	Scan [®] 3000 Ai	Scan [®] 5000 Ai
Dimensions (w x d x h)	32 x 32 x 44 cm	46.4 x 46.4 x 63.1 cm
Net weight	11.5 kg	25.15 kg
Box dimensions (w x d x h)	60 x 50 x 55 cm	80 x 60 x 63 cm
Gross weight	17.5 kg	32.50 kg

Supplied with 1 x 15 V power cord, 1 x USB cable, 3 validation plates, 1 x user manual, 1 x certificate of conformity / warranty card

Certified product



Products manufactured for INTERSCIENCE
 by Interlab, an ISO 9001-certified company

Accessories



Optical cleaner wipes
 Optical cleaner and 50 wipes
 Ref. 435 702



Barcode reader
 Barcode reader (1D / 2D)
 Ref. 522 000



IQOQ Services

In an environment where equipment precision and reliability are paramount, our application team is committed to providing you with **rigorous, customized qualification services**.

Our offers include a complete range of services, installation and initial commissioning to maintain the optimum performance of your equipment.

We understand the importance of each step in the process, and ensure that **each piece of equipment is qualified according to precise, validated protocols**.

Technical specifications

	Scan® 3000 Ai	Scan® 5000 Ai
OVERVIEW		
Reference	434 300	434 500
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 Pads™, Easy Plate™, filtration membranes	✓	✓
Automatic counting	✓	✓
Inhibition zone reading	✓	✓
Counting on 100% of the Petri dish	✓	✓
AI-powered colony counting	✓	✓
Automatic detection of Petri dishes	-	✓
Counting on Petri dishes up to 150 mm	-	✓
COUNTING		
Counting	Automatic with manual control (adding/removing colonies)	
Automatic separation of clustered colonies	✓	✓
Creation of polygonal exclusion zones	✓	✓
Classification of bacteria, yeasts and molds	✓	✓
Counting time	Up to 1000 colonies per second	
Minimal size of colony	0.03 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, peni-cylinder (steel, plastic)	
Display resolution	± 0.1 mm	
Inhibition zone measurement accuracy	± 0.2 mm	± 0.1 mm
Number of antibiotic paper disks	Up to 7 antibiotics on a Ø 90 mm Petri dish	Up to 16 antibiotics on 120 mm square dish
Reading time	7 inhibition zone reading between 1 to 3 s	16 inhibition zone reading between 2 to 4 s max.
Interpretation system	CA-SFM Human health / EUCAST / CA-SFM Veterinary / CLSI (Clinical, Laboratory Standards Institute) / Customizable list	
SPECIFICATIONS		
Color camera	Ultra HD CMOS	
Lens	HD Japanese lens	
Zoom	x 69	
Resolution (megapixels)	5	12.2
White LED Lighting technology	White LED Dome indirect lighting	
LED Lighting system	Automatic with 7 combinations, top and/or bottom light, white or black background	
Petri dish size	Ø 55 mm - Ø 90 mm	Ø 55 mm to 150 mm round Petri dishes and 120 mm square Petri dishes
Color detection	4 colors on the same dish + 2 colors to exclude	
Languages	English, French, Japanese, Chinese, Russian, Spanish, German	
Voltage - Frequencies	100-240 V~ 50/60 Hz	
Warranty	3-year (after recording the warranty online)	
Spare parts availability	10 years	
In compliance with	21 CFR Part 11, ISO 7218 and AOAC 977.27	
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 / 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 i7, 2.8 GHz or higher (i9 or xeon gold)	
Graphic card	Nvidia RTX 3060 or 4050 or higher (Nvidia brand only)	
RAM	Minimum 16 GB required for use of Scan	
Equipments	Free USB 3.0 port	
Screen	1920 x 1080 pixels or higher	

Plate & Count system®

The winning team
from sample to result



Plate & Count system® enables **automatic dilution, plating and counting of colonies**.
It's the perfect solution for the efficiency and traceability requirements of microbiological analysis.

- **75% savings in time and consumables guaranteed**
- **Traceability of results**
- **High-tech, made in France**

For more information on Plate & Count system, please refer to the brochure.

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