Allows compliance with:

ISO 7218

21 CFR Part 11

SphereFlash®
Automatic Colony Counter

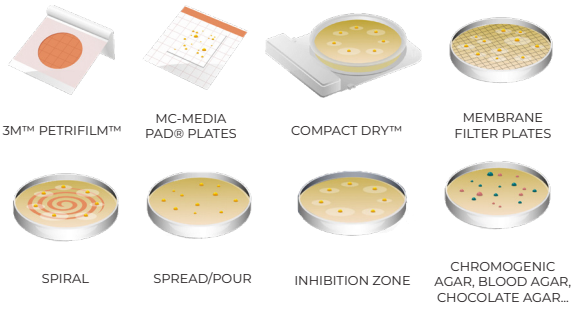
Pharmaceutical | Food & Beverage | Environment | Cosmetics



Product Overview

The SphereFlash® is an Automatic Colony Counter that meets all the requirements of modern microbiology laboratories while **increasing their throughput.**

SphereFlash® is a one-size-fits-all solution that reads automatically different types of plates with the same instrument.





Main benefits

Utmost accuracy

Finest image capture for better, more reliable, and consistent results thanks to optimized image acquisition.

Compatible with SphereFlash® AI

Count the CFU in just one click with the powerful Artificial Intelligence of SphereFlash® AI Colony Counting Software.

Audit Trail & User Management

SphereFlash® AI, Colonies PRO and Halos PRO softwares comply with 21 CFR Part 11. Their security-relevant chronological set of records will provide documentary evidence of the sequence of activities that have affected a specific operation.

One-size-fits-all

A single device for all types of plates. The adapters and centering devices designed to fit various diameters enable to switch plate anytime.

Wide range of colony counting

Easy & intuitive powerful softwares. Even the LITE version will detect a wide range of colony types with minimal or no user parametrization.

High resolution

SphereFlash® is capable of detecting colonies of 0.3 mm using Colonies LITE Software and 0.046 mm using Sphere-Flash® AI and Colonies PRO Softwares.

Doc. 50007950-05 Feb. 2024

Softwares

NEW!

SphereFlash® AI Colony Counting Software*

Cat. 90007003 (Image pack)
Cat. 90007004 (Storage pack)



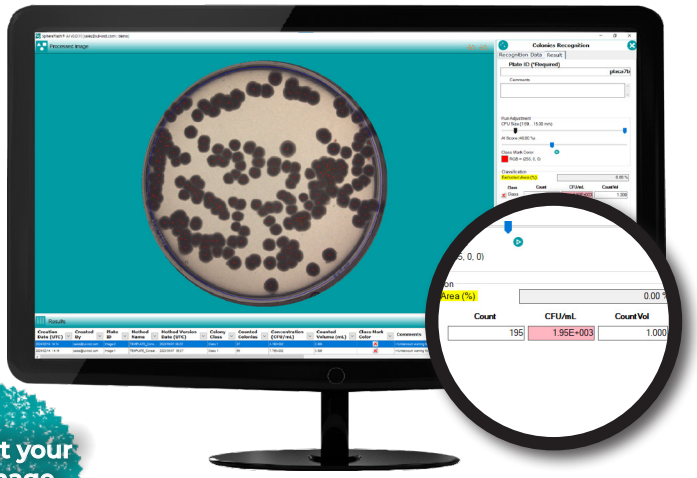
ARTIFICIAL INTELLIGENCE-POWERED SOFTWARE

AI-based software that achieves **colony counts** with exceptional accuracy in just **one click**.

Capture the image and count the colonies instantly, with **no adjustments needed**.

Yearly subscription license
**Requires internet connectivity*

Request your 100-image FREE TRIAL

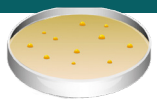


As we understand that resources are limited we designed the SphereFlash® with a small footprint and scalable software. Use only the features you need and add new capabilities as your lab work requires with our **desktop-based** softwares.

INCLUDED

Colonies LITE

Included with SphereFlash®
Cat. 90007000



STANDARD METHODS

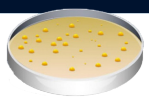
- Colony counting
- Automatic Calibration & Verification
- Report Generation
- Statistical Report
- Data export in PDF & CSV
- Images export in .PNG
- Designed for 100 mm, 90 mm, 60 mm (RODAC plates) and membrane filter plates
- Accessories available for 3M™, Petrifilm™, Compact Dry™ and MC-Media Pad® plates

Colonies LITE SW included with the SphereFlash® **unit Colony counter**

UPGRADE

Colonies PRO

Cat. 90007001



CREATE YOUR COLONY COUNTING METHODS

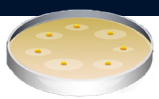
- Colony counting
- Automatic Calibration & Verification
- Colonies classification by color or size
- User Management
- Audit Trail available
- CFR21 Part 11 - Compliant
- LIMS Interface
- Report Generation
- Statistical report
- Data export in PDF & CSV
- Images export in .PNG
- Logo customization on the report
- Designed for 90 mm, 60 mm (RODAC plates) and membrane filter plates
- Accessories available for 3M™, Petrifilm™, Compact Dry™ and MC-Media Pad® plates

One-time payment license

UPGRADE

Halos PRO

Cat. 90007002



CREATE YOUR HALO MEASURING METHODS

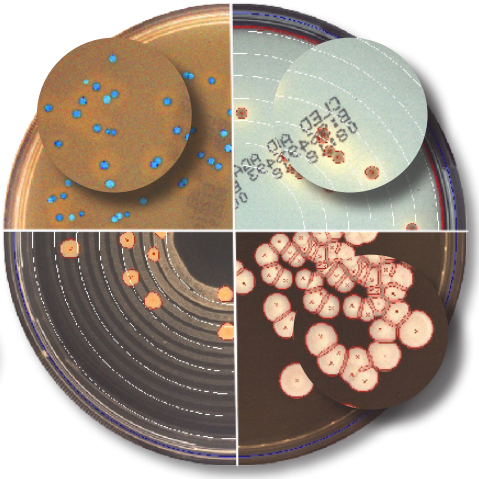
- Inhibition Zones Measurement
- Antibiotic Potency Test according to the procedure of US Pharmacopoeia
- Automatic Calibration & Verification
- User Management
- Audit Trail available
- CFR21 Part 11 - Compliant
- LIMS Interface
- Report Generation
- Data export in PDF & CSV
- Images export in .PNG
- Logo customization on the report

One-time payment license

Accuracy of counting

The SphereFlash® software is designed to filter and classify colonies by colors and diameters

SphereFlash® is able to count colonies in spiral distribution

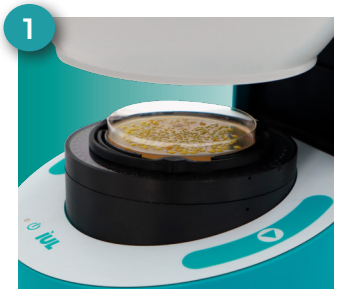


SphereFlash® can distinguish colonies on challenging backgrounds

The SphereFlash® software can distinguish overlapped colonies

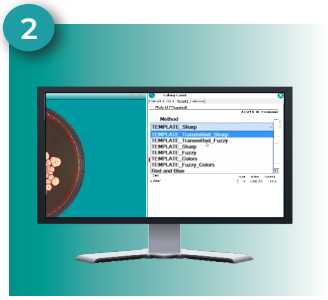
Workflow

1



Place the Petri Dish in the **centring device** of SphereFlash®.

2



Choose the method you want to apply according to your plate.

3



SphereFlash® **counts the colonies in 2 seconds.**

4

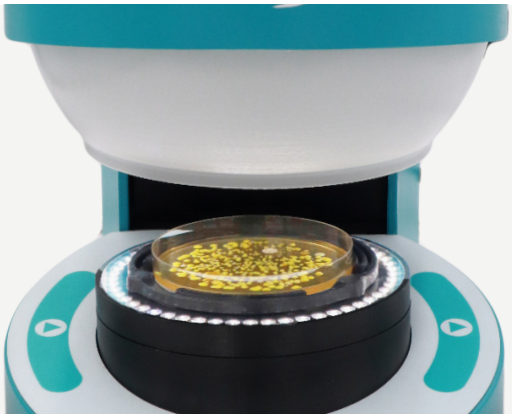


Obtain your report and print it in PDF.

Reflection-Free Illumination

The lighting is done through LEDs oriented to the internal wall of a moving spheric chamber and comes from above and/or below the chamber. The result is an unprecedented uniform and reflection-free illumination in both colonies and petri plates.

The moving sphere automatically closes the chamber and prevents the area from any external light.



Technical data and computer requirements*

Dimensions	288x220x371mm (1.34x8.66x14.6 in)
Weight	5,5Kg (12.13 lb)
Processor	PassMark CPU Mark from 2500 to 8000 points
RAM	8GB
Interface	1 free USB 3.0 Port
Screen resolution	FullHD screen (1920x1080) recommended
Applications	Microsoft Excel® 2007 or higher, 64 bits to open exported Excel® files Virtual PDF printer to create PDF reports

Software specifications	SphereFlash® AI Colony Counting Software	Colonies LITE Colonies PRO Halos PRO
Internet connection	Required	-
Operating system	Microsoft Windows® 10, 11 (x64 platforms)	Microsoft Windows® 7, 8.1, 10, 11 (x64 platforms)
Free disk space	100MB	App: 100MB Database: 10GB (5000 results & images)

Specifications subject to change without notice.
**Computer not included.*

Ensure your samples are prepared the best way for SphereFlash®



Eddy Jet 2W – Spiral plater

Eddy Jet 2W standardizes and streamlines plate inoculations with its patented cross-contamination-free technology.



Spin Air - Air Sampler

With its rotatory system, microorganisms stay on the plate in spiral homogeneously distributed in the Petri dish.

Accessories and spare parts

1. USB Super Cable 3.0
   Cat. 90001960
2. AC-DC Industrial Adaptor 12V
   Cat. 90004013
3. Verification disk for Halos
   Cat. 900011876
4. Verification disk for Colonies
   Cat. 90004113
5. Calibration disk
   Cat. 900010081
6. Pattern for 6 halos (10 units)
   Cat. 90002131
7. Pattern for 4 halos (10 units)
   Cat. 90002132
8. Centering device ~87-91 mm ø
   Cat. 900013473
9. Centering device 65-70 mm ø
   Cat. 900013513
10. Centering device 54-60 mm ø
    Cat. 900013512
11. Compact Dry™ adapter
    Cat. 900013524
12. Petrifilm™ adapter
    Cat. 900013525
13. MC-MEDIA® adapter
    Cat. 900013537

Ordering Information

1. SphereFlash® - Colony Counter unit
   (includes Colonies LITE software)
   Cat. 90007000
2. Colonies PRO software
   Cat. 90007001
3. Halos PRO software
   Cat. 90007002
4. SphereFlash® AI Colony Counting Software
   Cat. 90007003 (Image pack)
   Cat. 90007004 (Storage pack)

AENOR GESTIÓN DE LA CALIDAD ISO 9001

IQNET RECOGNIZED CERTIFICATION

For more information about SphereFlash®, scan the QR code

For more information visit us at:

www.iul-instruments.com

IUL SA Carrer de la Ciutat d'Asunción, 4 - 08030 Barcelona (Spain)
sales@iul-inst.com • T. +34 93 274 02 32