

IUL Instruments **Sphere Flash®** Automatic Colony Counter



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Present across Europe



PRODUCT OVERVIEW

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

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

- ✓ 3M™ PETRIFILM™
- ✓ MC-MEDIA PAD® PLATES
- ✓ COMPACTDRY™
- ✓ SPIRAL
- ✓ CHROMOGENIC AGAR, BLOOD...
- ✓ SPREAD/POUR
- ✓ MEMBRANE FILTER PLATES
- ✓ INHIBITION ZONE

MAIN BENEFITS

Reflection-Free Illumination
Its patented spherical chamber eliminates reflections in both colonies and Petri plates, and this enables uniform illumination. An improved image capture for better, more reliable and consistent results.

World-Class Software
Easy & intuitive powerful software. Even the LITE version will detect a wide range of colony types with minimal or no user parametrization.

Audit Trail & User Management
SphereFlash® Colonies Pro & Halos Pro softwares comply with 21 CFR Part II. 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
The adapters and centering devices designed to fit various diameters enable to switch plate very easily, providing a great gain of time.

Statistical Report
Easy and automatic generation of result reports, with customizable layout, containing as many plates as needed.

High resolution
SphereFlash® is capable of detecting colonies of 0.3 mm using Colonies Lite Software and 0.046 mm using Colonies Pro Software.

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



Put the Petri Dish in the centring device of SphereFlash®



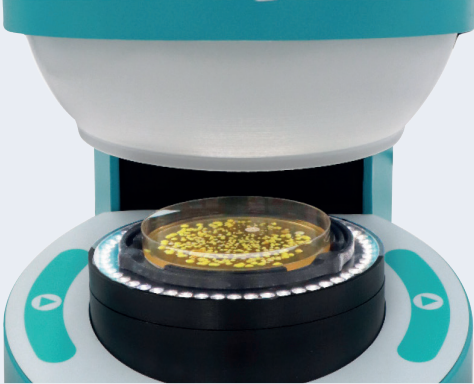
Choose the method you want to apply according to your plate



SphereFlash® counts the colonies in 2 seconds



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

SOFTWARE CHARACTERISTICS

Colonies LITE Standard methods	Colonies PRO Create your Colony counting methods	Halos PRO Create your Halo Measuring methods
INCLUDED	UPGRADE	UPGRADE
<ul style="list-style-type: none">• Colony Counting• Automatic Calibration & Verification• Report Generation• Data export in PDF & CSV• Images export in .PNG• Statistical Report• Designed for 100 mm, 90 mm, 60 mm (RODAC plates) and membrane filter plates• Accessories available for 3M™, Petrifilm™, CompactDry™ and MC-Media Pad® plates Petrifilm™, CompactDry™ and MC-Media Pad®-plates	<ul style="list-style-type: none">• Colony counting• Automatic Calibration & Verification• Classify the colonies by color or size• User Management• Audit Trail available• CFR21 Part 11 - Compliant• Worksheet Mode• Remote Input-Output Mode (LIMs)• Report Generation• Data export in PDF & CSV• Images export in .PNG• Logo customization on the report Statistical report	<ul style="list-style-type: none">• 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• Worksheet Mode• Remote Input-Output• Mode (LIMs)• Report Generation• Data export in PDF & CSV

TECHNICAL DATA

Dimensions	288 x 220 x 371 mm (1.34x8.66x14.6 in)
Weight	5,5 Kg (12.13 lb)
Computer interface	USB 3.0 Typ-A socket
Mains AC adapter Output	12 V DC 3.43A
Power Range	90 ~ 264 VAC
Frequency Power	47 ~ 63Hz
Maximum Power	40 W
Air temperature	15 - 30°C (59 - 86°F)
Frequency Range	50 - 60Hz

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.

