



# SphereFlash®

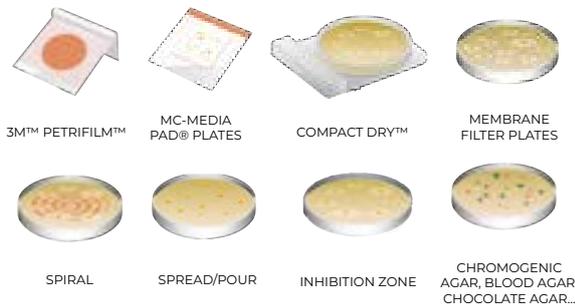
## Automatic Colony Counter

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 its throughput**.

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



### Main benefits

#### Utmost accuracy

Its patented spherical chamber eliminates reflections in both colonies and Petri plates. This enables uniform illumination, and improved image capture for better, more reliable, and consistent results.

#### 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 software. Even the LITE version will detect a wide range of colony types with minimal or no user parametrization.

#### Plate analysis

Easy and automatic generation of customized statistical reports including all the selected plates.

#### Audit Trail & User Management

SphereFlash® Colonies PRO & 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.

#### High resolution

SphereFlash® is capable of detecting colonies of 0.3 mm using Colonies LITE Software and 0.046 mm using Colonies PRO Software.

**Software: Colonies LITE, Colonies PRO & Halos PRO**



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.



**SOFTWARE CHARACTERISTICS**

**INCLUDED**

### Colonies LITE

**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®**

**UPGRADE**

### Colonies PRO

**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

**UPGRADE**

### Halos PRO

**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

## Accuracy of counting

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

SphereFlash® can distinguish colonies on challenging backgrounds

SphereFlash® is able to count colonies in spiral distribution

The SphereFlash® software can distinguish overlapped colonies

## Workflow

- Place 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.



## Technical data

<b>Dimensions</b>	288x220x371 mm (1.34x8.66x14.6 in)
<b>Weight</b>	5,5Kg (12.13 lb)
<b>Computer interface</b>	USB 3.0 Type-A socket
<b>Mains AC adapter Output</b>	12V DC 3.43A
<b>Power Range</b>	90 ~ 264 VAC
<b>Frequency Power</b>	47 ~ 63Hz
<b>Maximum Power</b>	40W
<b>Air temperature</b>	15-30°C (59-86°F)
<b>Frequency Range</b>	50-60Hz

*Specifications subject to change without notice.*

## Computer requirements

\*Computer not included

Microsoft Windows® 7, 8.1, 10, 11 (x64 platforms).

1 free USB 3.0 Port.

8 GB of RAM memory.

100 MB of free disk space and 100 GB for the Database (for 5000 results stored with images).

FullHD screen (1920x1080) recommended.

24" screen size recommended.

Microsoft Excel® 2007 or higher, 64 bits to open exported Excel® files.

A virtual PDF printer to create PDF reports.

## 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



For more information about SphereFlash®, scan the QR code



For more information visit us at:

[www.iul-instruments.com](http://www.iul-instruments.com)

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