

Automatic Colony Counter & Inhibition Halos measurement

World-class software, uniform & reflection-free illumination



CAT. 90007000
ShpereFlash with Colony LITEsoftware

Doc. No. 50007950-01

iUL
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Product Overview

The SphereFlash® is an Automatic Colony Counter that meets all the requirements that may be required in a modern microbiology laboratory.

With its Colony Lite software version it performs the colony counting in a simple and reliable way thanks to its world-class software and its patented built-in lighting system.

For more demanding users the software can be upgraded to Colonies PRO to increase its capabilities, e.g. setting User's Permission Levels, **LIMS connectivity**, Worksheets, Barcode Reading, Reporting, Audit Trail, or **CFR21 Part 11**.

With the optional Halos PRO app, the Sphere Flash unit can be transformed to measure inhibition halos accepting various circle approximation criteria to obtain the corresponding diameters of virtual circle areas.

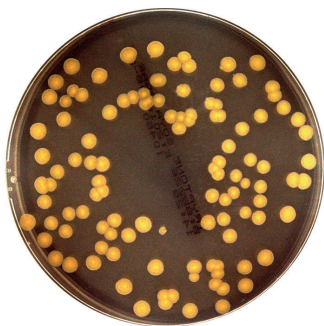
In all versions the lighting is done through LEDs that are oriented to the internal wall of a moving spheric chamber. The result is an unprecedented uniform and reflections-free illumination in a colony counter device.

The **moving sphere automatically closes the chamber** and prevents the area in which the Petri dish is located from any external light. It avoids any reflection or interference of external light, creating a luminous atmosphere without reflections of the walls of the Petri dish or of the colonies. For the transparent media the light by transmission is also available in all versions.

Main Benefits

World-Class Software: Easy & intuitive yet a powerful software. Even in its LITE version it will detect a wide range of colony types with minor or none user parametrization.

Reflections-Free Illumination: Its patented spheric chamber eliminates reflections in both, colonies and Petri plate, and provides a uniform illumination for an improved image capture that will lead to better, more reliable, and consistent results.



Reflections-Free Image

Image captured from a SphereFlash®

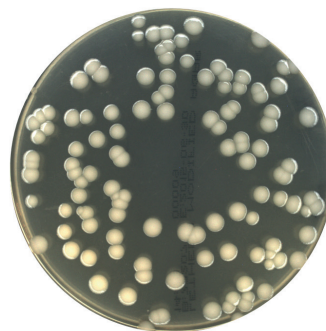


Image captured from a traditional counter

Event	TimeStamp	UTC TimeStamp	ModifiedBy	ChangedProperty	PreviousValue	NewValue	ReasonForChange
Changed Property	2017/03/23 16:30	2017/03/23 15:30	User Administrator	ImagingDeviceSN	3310137		New LicenseKey
Changed Property	2017/03/23 16:30	2017/03/23 15:30	User Administrator	DayCalibratorExpiratio	60	0	
Changed Property	2017/03/29 15:58	2017/03/29 13:58	User Administrator	ImagingDeviceSN	3310137	5310412	New LicenseKey
Changed Property	2017/03/29 15:59	2017/03/29 13:59	User Administrator	EquipResults	False	True	ImprovingResults
Changed Property	2017/03/29 15:59	2017/03/29 13:59	User Administrator	EquipResultFolder		C:\Users\Wavler\Desktop	ImprovingResults
Changed Property	2017/03/29 15:59	2017/03/29 13:59	User Administrator	Language		0	ImprovingResults
Changed Property	2017/03/30 15:44	2017/03/30 13:44	User Administrator	EquipResults	True	False	
Changed Property	2017/03/30 15:44	2017/03/30 13:44	User Administrator	EquipResultFolder		C:\Users\Wavler\Desktop	
Changed Property	2017/03/30 15:44	2017/03/30 13:44	User Administrator	BarcodeReaderName		BC1	
Changed Property	2017/03/30 15:47	2017/03/30 13:47	User Administrator	BarcodeReaderName		BC2	
Changed Property	2017/03/30 15:48	2017/03/30 13:48	User Administrator	BarcodeReaderName	BC2	BC1	
Changed Property	2017/03/30 15:48	2017/03/30 13:48	User Administrator	BarcodeReaderName	BC1	BC2	
Changed Property	2017/03/30 15:48	2017/03/30 13:48	User Administrator	BarcodeReaderName	BC1	BC2	
Changed Property	2017/03/30 15:52	2017/03/30 13:52	User Administrator	BarcodeReaderName		BC2	
Changed Property	2017/03/30 17:16	2017/03/30 15:16	User Administrator	ScreenFps	100	0	ImprovingResults
Changed Property	2017/03/30 17:16	2017/03/30 15:16	User Administrator	EquipResultFolder			ImprovingResults
Changed Property	2017/03/30 17:16	2017/03/30 15:16	User Administrator	CharListSeparator	:		ImprovingResults
Changed Property	2017/03/30 17:16	2017/03/30 15:16	User Administrator	ScreenFps	100	0	ImprovingResults
Changed Property	2017/03/30 17:16	2017/03/30 15:16	User Administrator	EquipResultFolder			ImprovingResults
Changed Property	2017/03/30 17:16	2017/03/30 15:16	User Administrator	CharListSeparator	:		ImprovingResults
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Changed Property	2017/03/30 17:16	2017/03/30 15:16	User Administrator	EquipResultFolder			ImprovingResults
Changed Property	2017/03/30 17:16	2017/03/30 15:16	User Administrator	CharListSeparator	:		ImprovingResults
Decarded User	2017/03/30 17:19	2017/03/30 15:19	User Administrator	ScreenFps	0	200	ImprovingResults
Decarded User	2017/03/30 17:19	2017/03/30 15:19	User Administrator	ScreenFps	0	1000	ImprovingResults
Decarded User	2017/03/30 17:19	2017/03/30 15:19	User Administrator	Decarded Record			ImprovingResults
Decarded User	2017/03/30 17:19	2017/03/30 15:19	User Administrator	ScreenFps	0	10	ImprovingResults

Audit Trail: Security-relevant chronological set of records that will provide documentary evidence of the sequence of activities that have affected at any time a specific operation or event in the SphereFlash®.



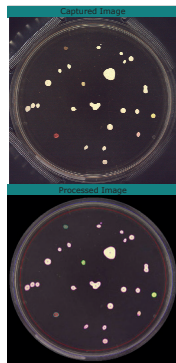
SphereFlash
Automated Colony Count

Plate ID:	plate45
Method:	ThreeColors
Date/Time:	2017/04/04 14:55:31
Operator:	User Administrator
Results Group:	Count Results
Inoculation Mode:	Spread
Inoculated Volume (mL):	1
Dilution Factor:	10
Excluded Area:	15.79 %

ColonyClass	Mark Color	Count	Counted Volume (mL)	Result CFU/mL
white	+	26	0.842	3.09E+02
yellow	+	3	0.842	3.56E+01
brown	+	2	0.842	2.38E+01

Input values (Method related)
Threshold to background: 60; Plate diameter: 85.0; Minimum diameter: 0.5

Comments



Report generation: Easy and automatic generation of result reports with customizable layout to include your Company's logo and/or information.

Scalability: Starting Colonies LITE software version (included with the unit) it can be independently upgraded to Colonies PRO or Halos PRO.

Software Comparison Table

Feature	Colonies LITE Cat.No. 90007003	Colonies PRO Cat. No. 90007001	Halos PRO Cat. No. 90007002
Colony Counting	✓	✓	
Inhibition Zones Measurement			✓
Standard Methods	✓	✓	✓
Methods Edition		✓	✓
Automatic Calibration & Verification	✓	✓	✓
Users Management		✓	✓
Results Table Cusotomization		✓	✓
Worksheet Mode		✓	✓
Remote Input-Output Mode (LIMs)		✓	✓
Audit Trail		✓	✓
Report Generation	✓	✓	✓

High-Troughput: A fast and powerful image processing software together with an automatic closing of the spheric chamber allows minor user intervention and time optimisation. Large amounts of plates can be accurely counted.

Ordering Information

1. SphereFlash® Colony Counter unit
(includes Colonies LITE software)

CAT. 90007000

2. Colony PRO software

CAT. 90007001

3. Halos PRO software

CAT. 90007002



Technical data

Petri dish maximum usable diameter: 90mm
Computer interface: USB 3.0 Type-A socket
Mains AC adaptor Output: 12V DC 3.43A
Power Range: 90~264 VAC
Frequency Range_ 47~63Hz
Maximum Power:40W
Overvoltage Category: II
Air temperature 15-30°C (59-86°F)
Relative humidity: 10-75% (non-condensing)
Altitude: Up to 2000m (6500ft)
Place of operation: For indoor use only.
Frequency Range: 50-60Hz
Pollution level 2
Dimensions: 288x220x371 mm (1.34x8.66x14.6 in)
Weight: 5,5Kg (12.13 lb)

Computer Requirements:

- Microsoft Windows® 7, 8.1, 10 (x64 platforms).
- 1 free USB 3.0 Port.
- 8 Gigabytes of RAM memory.
- 100 Megabytes of free disk space and 100 Gigabytes for the Database (for 5000 results stored with images).
- FullHD screen (1920x1080px) 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.

Specifications subject to change without notice.

Authorised distributor

In Australia:

For customer service, call 1300-735-292

To email an order, ordersau@thermofisher.com

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