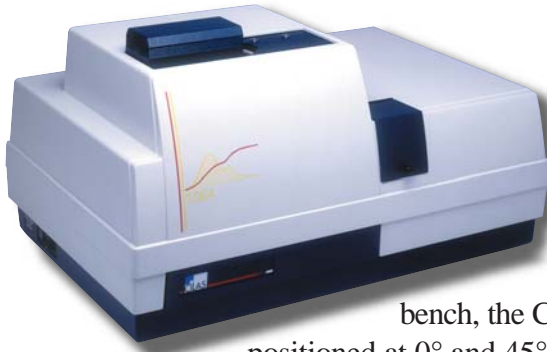


PARTICLE SIZE ANALYZERS

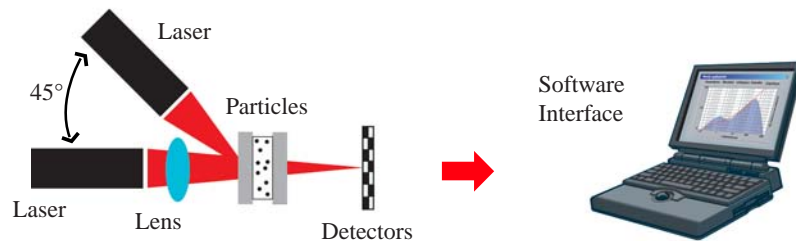
CILAS 1064



PRINCIPLE OF MEASUREMENT

With an extremely compact cast iron optical bench, the CILAS 1064 integrates 2 sequenced laser sources positioned at 0° and 45°, to produce a diffraction pattern analyzed on a 64 channel silicon detector. Through the software, the distribution curve is represented by 100 classes over the range from 0.04 to 500 µm.

CILAS 1064



THE "2 IN 1" CONCEPT

As for all the range of CILAS particle size analyzers, the CILAS 1064 benefits of concept "2 in 1" from this patented original and unique design which switches, by a simple "click of a mouse", between liquid and dry mode in a matter of seconds. There is no need for an additional module, nor is there any need for realignment or recalibration. You use one instrument to analyze all types of samples thereby increasing your productivity dramatically.

2 in 1
Concept



FIELDS OF APPLICATIONS

The CILAS 1064 is the ideal tool for sub-micron analysis in the fields of chemical industries, ceramics, PVC and Pharmaceuticals. It is also very useful instrument for research laboratories

CILAS 1064

- Compact
- Two sequenced lasers
- From 0.04 up to 500 µm
- " 2 in 1 " concept :
Liquid and dry mode
- Multitasking and user friendly software interface
- Optimal productivity

PARTICLE SIZE ANALYZERS

CILAS 1064

SPECIFICATIONS

Principal of measurement	Laser diffraction – Based on Mie and Fraunhofer scattering theories.
Operating specifications	
Size range (μm)	0.04 - 500
Liquid mode	0.04 - 500
Dry mode	0.3 - 500
Dispersion type	venturi
Amount of sample required	
Liquid mode	< 5 g
Dry mode	< 20 g
Standard deviation	
Repeatability	$\pm 0.5 \%$
Reproducibility	< 2 %
Proper operation	
Temperature	+ 10 to + 40° C
Humidity	0 to 90 %
Acquisition time	
Liquid mode	30 seconds
Dry mode	30 seconds
Technical specifications	
Number of lasers	2
Laser source	Fiber and collimated laser diodes
Wavelength	635 and 830 nm
Power	3 / 7 mW
Beam diameter	2 and 20 mm
Peristaltic pumps	typical 120 rpm (adjustable from 0 to 300 rpm)
Mechanical stirrer	adjustable from 0 to 300 rpm
Ultrasonic	continuous or pulsed, frequency 38 KHz, adjustable power 20, 35, 50 W
Power	110/240 V / 50/60 Hz / consumption < 100 VA
External dimensions	
Length/width/height/weight	830 mm / 560 mm / 480 mm / 54 kg (33 in / 22 in / 19 in / 119 lbs)
Safety certification	
Laser	
Closed cover	Classe I of NF EN 60025-1
Opened cover (safety shunt)	Classe III of NF EN 60685
Electric	Classe B of NF EN 61010-1 & EN 61326
Fire	Classe VO of UL94

ACCESSORIES

- Video Camera : for visualizing shape.
- Small volume unit : 50 ml for aggressive solvents and high cost samples.
- Alcohol recirculator : to decrease the cost of alcohol, when analyzing hydrophilic particles.
- Auto sampler : 28 cups for unattended analysis.
- Remote control module to increase productivity.

CILAS RANGE

- CILAS 920 : single laser system for a measuring range from 0.3 to 400 μm .
- CILAS 1180 : Integrates 2 high technologies, laser diffraction and CCD camera for a measuring range from 0.04 to 2,500 μm .

Many tasks are performed automatically by the particle size analyzer, such as cleaning, rinsing, and system checking. Designed to be robust and field proven, our particle size analyzers require very little maintenance.

AXIOME - Photos copyright : Patrice Delatouche - Non contractual Document

All the informations and specifications of the particle size analyzers are subject to change without notice by CILAS.



8, avenue Buffon
45063 ORLEANS FRANCE
Tél. : (33) 2 38 64 59 00
Fax : (33) 2 38 64 59 07
www.particle-size-analyzer.com
Email : info.particle@cilas.com

CILAS has retailers
all over the world

