

The inventor of
Laser Particle Size
Technology

Expert in laser Particle Size and Shape Analysis for over 40 years, CILAS provides reliable instruments effortless to operate and ensure accurate results.

RELIABLE SOLUTIONS

- Patented compact optical bench, mounted on a cast-iron base plate.
- Rugged, alignment-free design.
- Measurement with perfect repeatability and accuracy.

EASY TO USE

- 2 in 1 : software controlled switching between Liquid and Dry dispersion modes.
- Control of the instruments through a synoptic diagram which commands all the internal functions.
- Microscope coupled with the Particle Size Analyzer for a morphological analysis.

FITS YOUR NEEDS

- Improvement of industrial process and quality control.
- Characterization of materials, from the R&D laboratory to the production center.
- Control of the size and shape of your particles or emulsions.



LD model



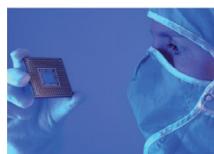
Liquid model



Dry model



Industry



R&D



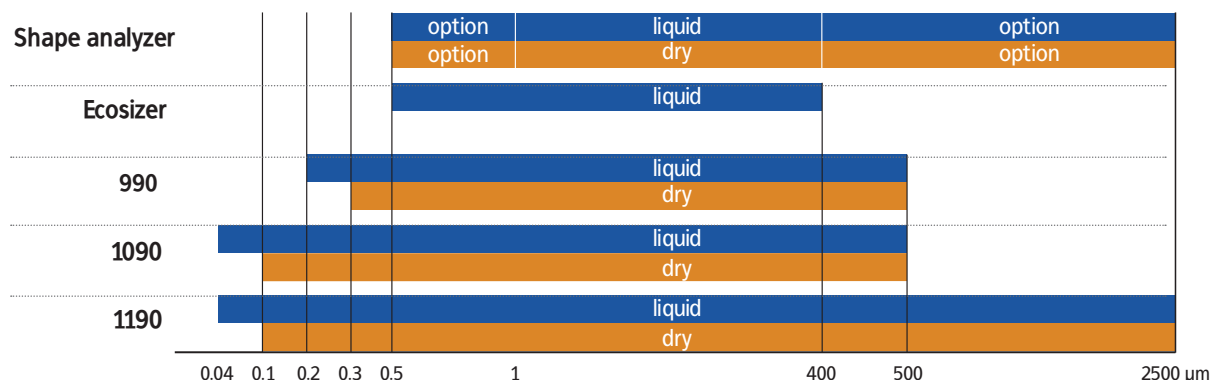
Laboratory



Quality

YOUR PARTNER IN PARTICLE ANALYSIS

MEASUREMENT RANGE & SPECIFICATIONS



MODEL	Ecosizer	990	1090	1190
Dry dispersion	—	Venturi	Venturi	Venturi / Free Fall
Repeatability	<1%	<1%	<1%	<1%
Accuracy	<3%	<3%	<3%	<3%
Input	110-240 V, 50/60 Hz, <100 VA			
Laser Safety Classification	21 CFR - 1040/NF EN 60825-1/A2			
Closed Cover	Class I of NF EN 60825-1/A2			
Open Cover	Class III of NF EN 60825-1/A2			
Compliance	ISO 13320, 21 CFR-Part 11, CE, USP 429			
Liquid Dispersion	2 Peristaltic Pumps / Ultrasounds / Stirrer			
External Dimensions	Length 890mm 35 in	Width 530mm 21 in	Height 430mm 17 in	Weight 48-63 kg 106-139 lbs

ELECTRONICS

- Full PSA remote control through Size Expert software
- Easier SOP adjusting
- Perfect reproducibility
- Automatization of the measurement process
 - Pump and stirrer speed
 - Adjustable frequency and duty cycle of the vibrating system
- Easier maintenance

SHAPE ANALYSIS

- The *SHAPE ANALYSIS* package includes a CCD camera to view particle shape. Particles are analyzed in a flow through cell connected to the laser particle size analyzer. The system is fully automated through software.
- The *SHAPE ANALYSIS* system includes an easy to use software package for shape characterization.
- Range from 0.5 µm up to 2500 µm over 60 size and shape parameters.



DRY MODE (patented)

- Dry Jet Dispersion technology (DJD)
- Adjustable frequency and duty cycle of the new vibrating system
- Improved powder flowing
- Digital dry mode pressure regulation
- Low voltage (24V), no electric shocks hazard
- Rectilinear venturi stream

ALCOHOL RECIRCULATOR

- The alcohol recirculator is used to regenerate alcohol when analyzing water soluble samples.
- The unit is fully automated using our *SIZE EXPERT* software.



CILAS
8, AVENUE BUFFON
ZI LA SOURCE
45063 ORLEANS (FRANCE)
T : + 33 2 38 64 15 55
F : +33 2 38 64 59 22

www.cilas.com
info.particle@cilas.com

