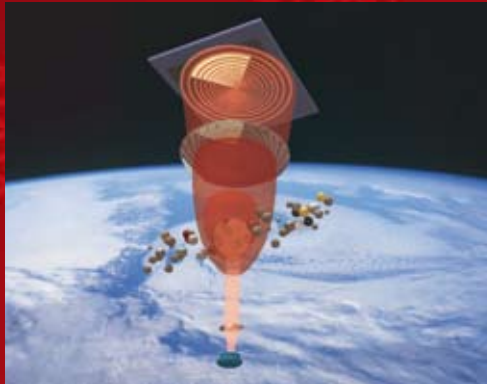


SALD-201V

Shimadzu
Laser Diffraction Particle Size Analyzer





- High performance
- High accuracy
- High reliability
- Compact body
- Reasonable price
- New design with vertical optical system



**a compact instrument with all the necessary functions
for particle size measurement.**

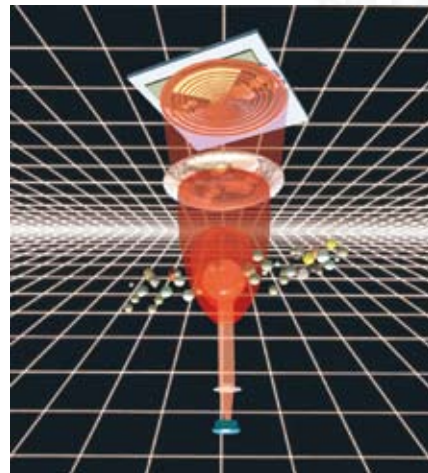
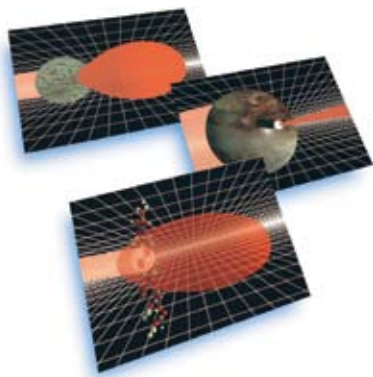
SALD-201V

SALD-201V

Shimadzu Laser Diffraction Particle Size Analyzer

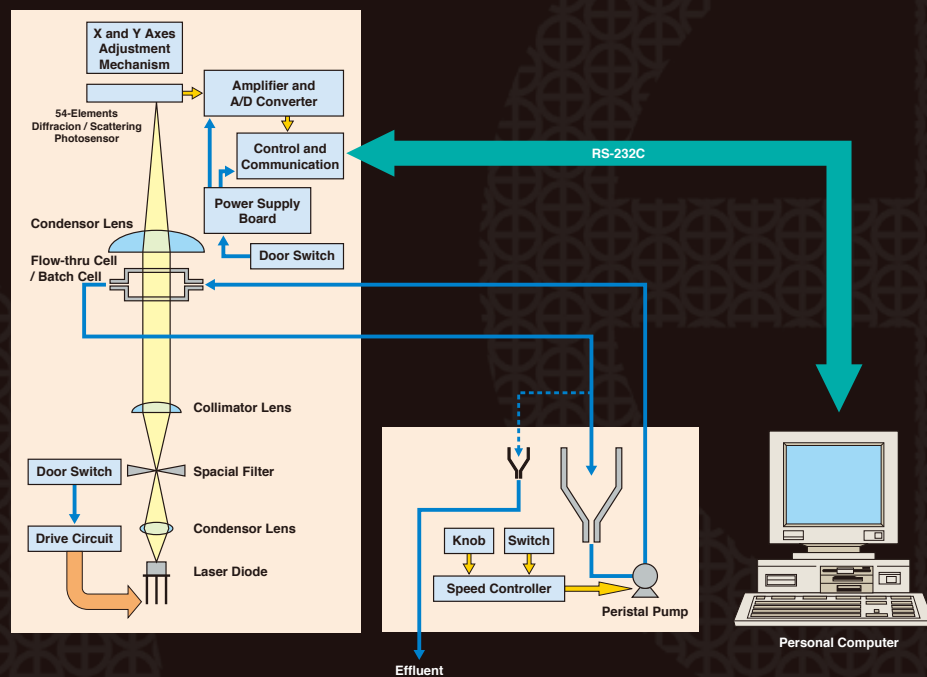
SALD-201V is ideal for analysis of foods, drinks, cosmetics, and pharmaceuticals.

The laser beam is diffracted and scattered by the sample particles and forms light intensity distribution patterns, depending on the particle size.



Vertical optical system

Block diagram



Contents

P 04 - Features

P 06 - Software

P 08 - Specification

You can choice two models for your needs.

Batch cell model

Model-1

This simple model, consisting only of the analyzer unit and a batch cell, is recommended for analysis of light particles.

Measuring range

0.25 - 50 micrometers

Feature

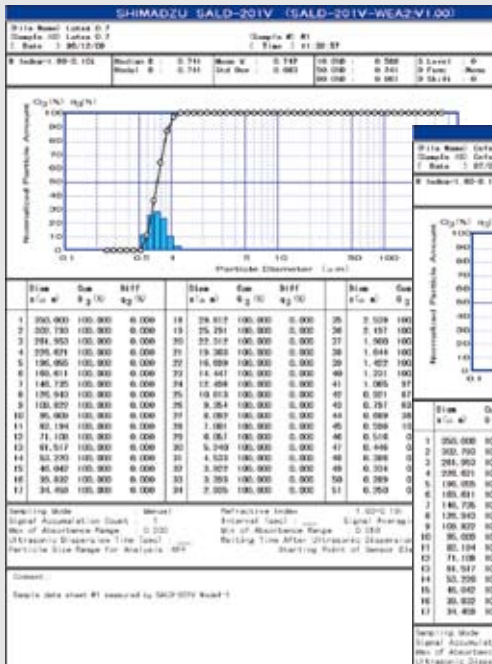
Reliable analysis with small samples
(The minimum volume of dispersant is about 2 cm³)



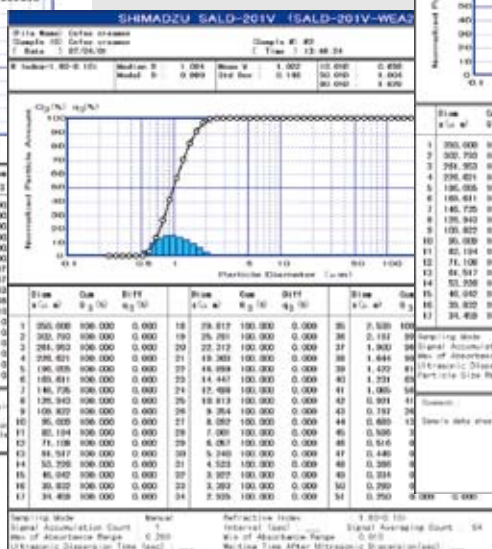
Batch cell



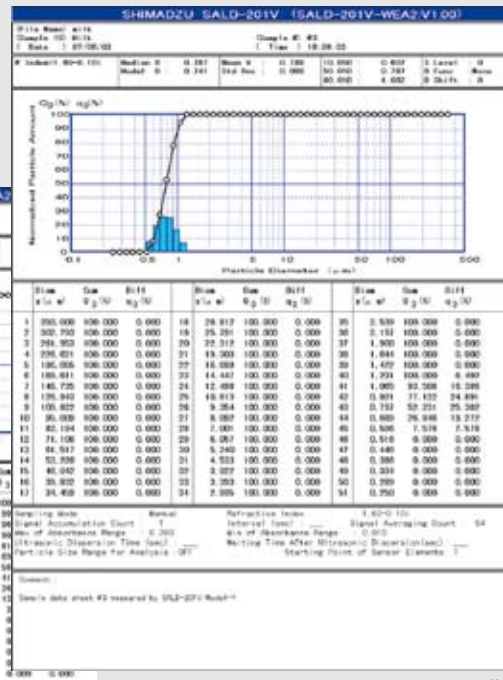
Examples



Latex
(0.7 micrometers)



Coffee creamer



Milk

They can cover 75% of all the needs for particle size analysis

Batch cell and flow-thru cell model

Model-2

Consisting of the analyzer unit, a batch cell, a sampler, and a flow-thru cell, this model provides a wider measuring range than Model-1.

Measuring range

0.25 - 350 micrometers

Feature

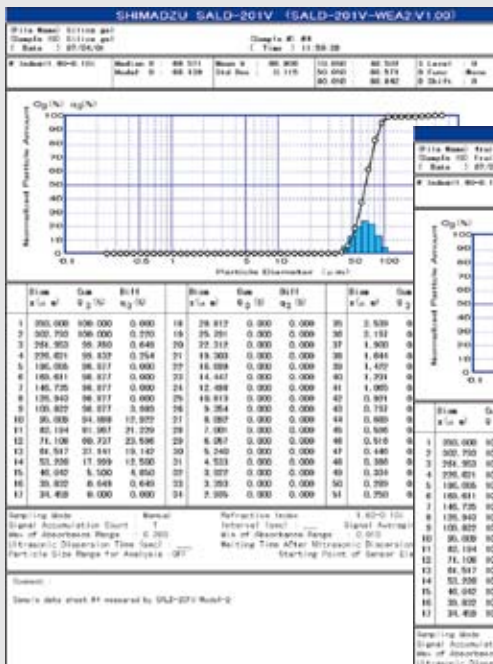
Reliable analysis of various types of particles and emulsions



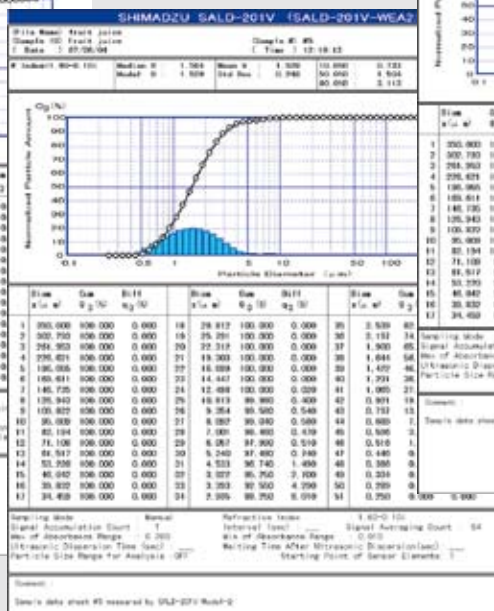
Flow-thru cell



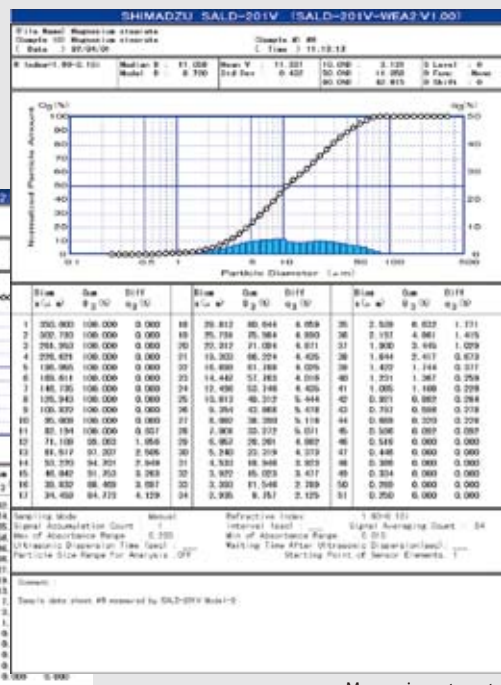
Examples



Silica gel



Fruit juice



Magnesium stearate

WingSALD

[Software for measurement and data processing]

WingSALD software is a 32-bit program designed for Windows® 95/98/NT4.0

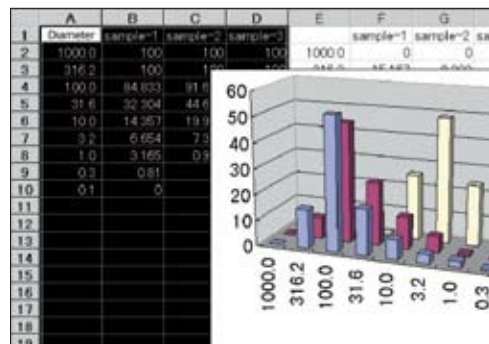
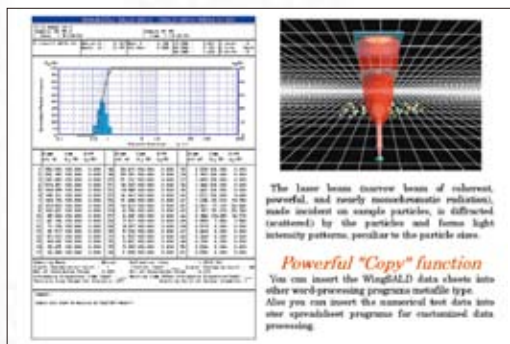
Strong points of *WingSALD*:

- Easy operation
- Various data processing
- Presentation of a large amount of particle size distribution data and light intensity distribution data by using *MDI* (multiple document interfase)
- Recalculation of maximum 12 data at one time changing refractive index
- WingSALD software consists of 3 *Wing* sub programs.



Powerful "Copy" function

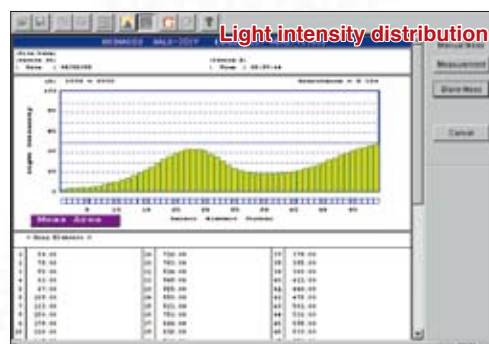
You can insert the *WingSALD* data sheets into other wordprocessing programs in metafile type. Also you can insert the numerical text data into other spreadsheet programs for customised data processing.



Real-time monitoring of sample dispersion

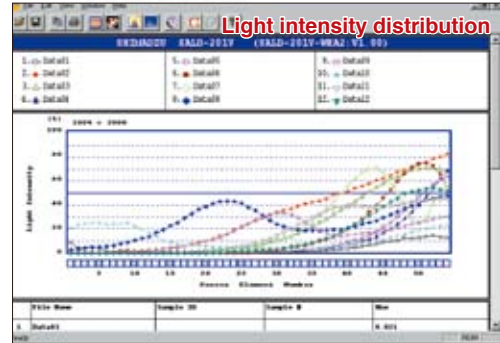
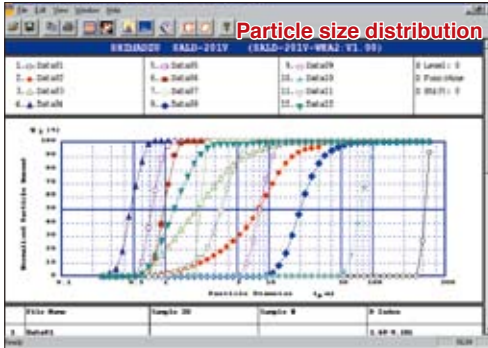
Wing 1

You can monitor sample dispersion by using real-time display of particle size distribution as well as light intensity distribution.



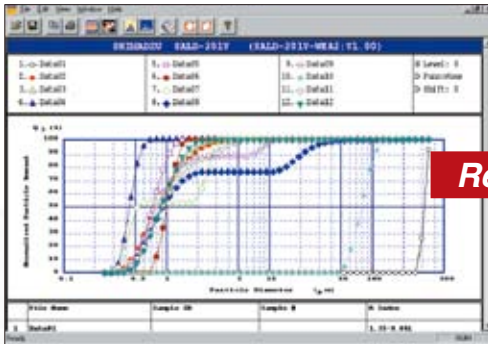
Overlay graph of maximum 12 data

Wing 2

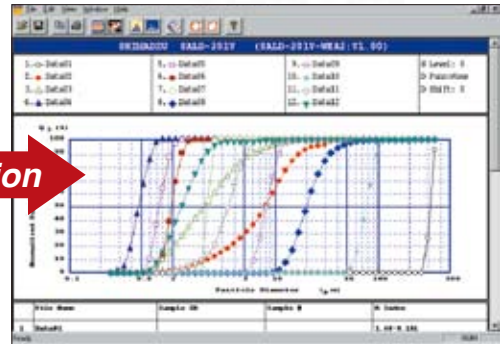


Recalculation of maximum 12 data at one time changing refractive index

Wing 2

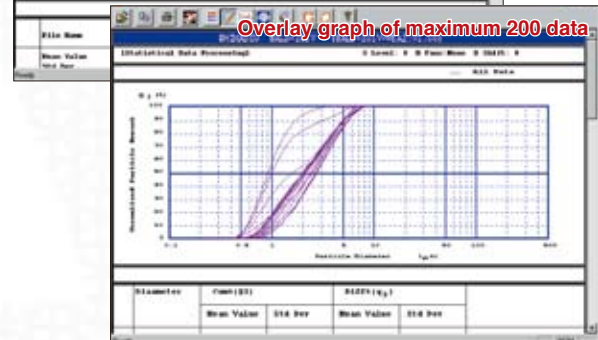
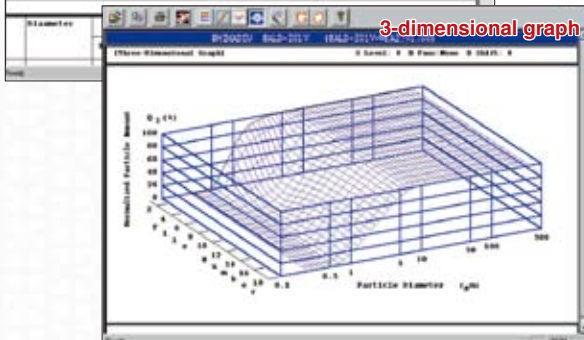
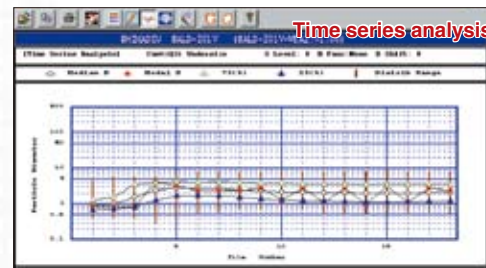
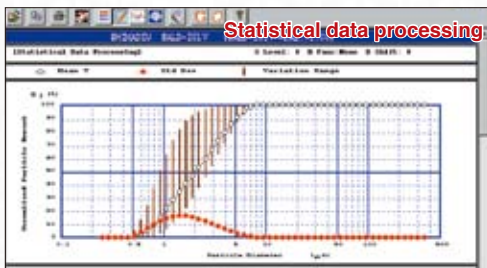


Recalculation



Statistical data processing, time series analysis, 3-dimensional graph in simple operation

Wing 3



Specifications

		Model-1	Model-2
Method of measurement		Laser diffraction method	
Measuring range		0.25–50 μ m*	0.25–350 μ m*
Optical system	Light source	Semiconductor laser (670 nm in wavelength)	
Sample cell	Batch cell	Pyrex glass and tetrafluoroethylene	
	Flow-thru cell	—	Fused silica, SUS304, and tetrafluoroethylene
Sampler	Sample bath	—	SUS304 and about 200cm ³ in capacity
	Liquid pump	—	Peristaltic pump, about 1,000cm ³ /min. in the maximum delivery rate
	Material of wetted parts	—	SUS304, silicone rubber, and polypropylene
Power requirement	Analyzer main unit	100, 110, 120, 200, 220 or 240 VAC as ordered, 100VA	
	Analyzer main unit with CE mark	100, 115, 230VAC, 100VA	
	Sampler	—	100, 110, 120, 200, 220 or 240 VAC as ordered, 100VA
	Sampler with CE mark	100, 115, 230VAC, 100VA	
Dimensions and Weight	Analyzer main unit	About 28cm wide, 34cm deep, 51cm high, and about 25kg in weight	
	Sampler	—	About 24cm wide, 33cm deep, 29cm high, and about 11kg in weight
Environmental requirements	Temperature	10–30 ∞ C	
	Humidity	20–80%	
PC hardware requirementsMethod of		IBM 100% compatible Windows [®] 95/98/NT4.0 ; CD-ROM drive ; Pentium [®] ; 16MB RAM ; 20MB of free HD space ; 1 serial ports (when the sampler is to be controlled by PC)Model-1	

- Windows is a registered trade mark of Microsoft Co.
- Pentium is a registered trade mark of Intel Co.
- SALD is a registered trade mark of Shimadzu Co.

P/N

Model-1 with CE mark	Model-2 with CE mark	Model-1	Model-2
346-62325-12	346-62325-52	346-62325-11	346-62325-51



JQA-0376

Founded in 1875, Shimadzu Corporation, a leader in the development of advanced technologies, has a distinguished history of innovation built on the foundation of contributing to society through science and technology. We maintain a global network of sales, service, technical support and applications centers on six continents, and have established long-term relationships with a host of highly trained distributors located in over 100 countries. For information about Shimadzu, and to contact your local office, please visit our Web site at www.shimadzu.com

SHIMADZU

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