

Accessories for the Laser Scattering Particle Size Distribution Analyzer

partica LA-960V2

**Partica LA-960V2 solves your problems.
Ideal for these situations:**



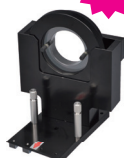
Observe distributions at **high concentration** without diluting the material



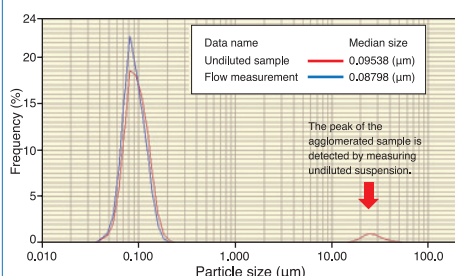
High-Concentration Cell

The High-Concentration Cell is able to measure close to original concentration with low dilution or without dilution.

NEW



- Measure without dilution
Inks, paints, pigments, emulsions
- Positive and negative electrode materials of secondary batteries etc.
- Observe changes in the agglomeration state based on concentration etc.
- Agglomerated was found when a battery was measured near to original concentration

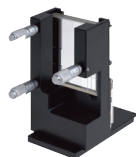


- Comparison of the results of undiluted suspension measurement and flow measurement (diluted with dispersant)



Paste Cell

The Paste Cell can measure undiluted samples or samples dispersed in a viscous medium.



- Microparticles dispersed in high-viscosity samples or polymers
- Magnetic powder: Measure magnetic powder by dispersing it in viscous oil to prevent re-agglomeration.

Measure both **agglomerated** and **granulated powder** without destroying them

Dry Measurement Unit

The Dry Measurement Unit can measure samples in a powder state.

It supports both non-dispersed measurement by free fall and forced-dispersion measurement using compressed air.



- Food materials, drugs, washing powder, and other samples easily soluble in water
- Granules and granulated powder formed by agglomerating and processing particles
- Polymers and resins that swell when dispersed in water or solvent
- Powders with water-repellent coating

● Vacuum sampler

The vacuum sampler is able to measure a very small amount of sample.



● Coated chute

The chute is coated with an electroplated nickel fluoride resin. For samples that adhere easily to a stainless steel chute and it is difficult to feed the sample by vibration.



Measure multiple samples automatically

Automatic Sampler

(Wet measurement in powder)

The Auto Sampler is a rotary table-type automatic sampling system equipped with 24 detachable sample cups.



Measure **small samples**

MiniFlow Circulation System

The MiniFlow can measure samples of dispersion medium as small as 35 mL. Recommended when using organic solvent as a dispersant.

The MiniFlow comes with an ultrasonic probe and automatic dispersant feeding pump as standard.

[Measurement range] 0.01–1000 μm, suits organic solvents



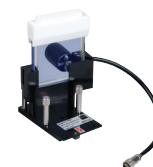
- Pigments, paints, stationary inks, and other samples dispersed in organic solvent
- Drugs, food, dyes, and other water-soluble samples and dispersed in organic solvent
- Fuels, lubricants, and other samples dispersed in an oil solvent

Fraction Cell

The Fraction Cell can take measurement with samples as small as only 5 mL, minimize the amount of dispersant.

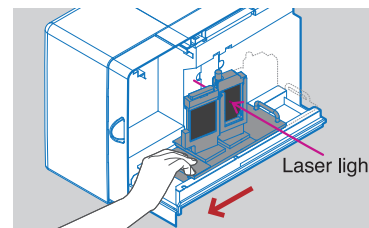
The Fraction Cell is ideal when the sample is extremely small or you need to recover the entire sample.

Cell volumes: 5 mL, 10 mL, 15 mL



- Rare sample
- Measurements with highly volatile solvent

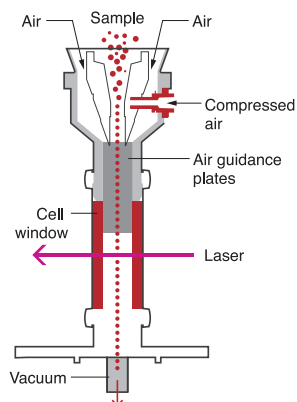
■ Easy cell switching.



Change cells just by sliding the changer table.
No tools needed.

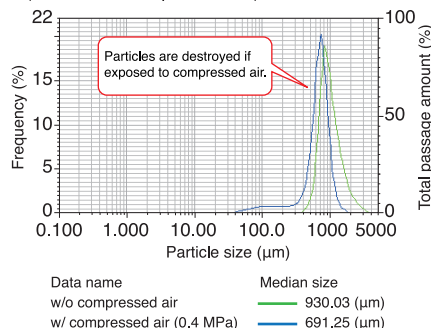
Flexible dispersion conditions: forced dispersion or non-dispersion measurement

- Dry measurement allows measurement in powder state without dispersants.
- Dispersion with compressed air can be deactivated, so it is possible to measure fragile sample such as granules and granulated powder.

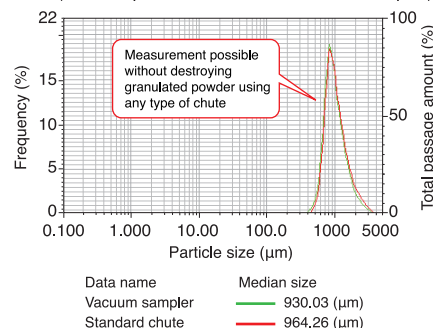


Example of dry-measuring granulated powder

■ Granulated powder measurement results (w/ and w/o compressed air)

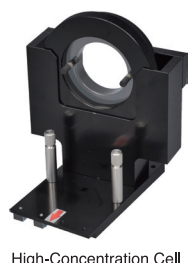


■ Granulated powder measurement results (w/o compressed air and w/ vacuum sampler)

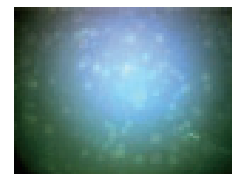
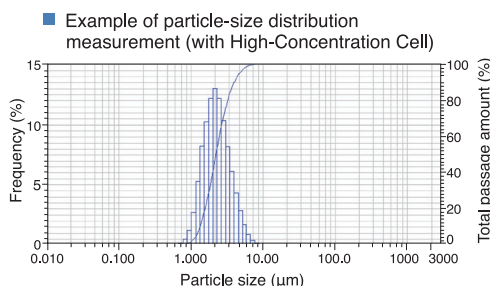


Multiple observations under the same conditions

- High concentration cell can be used to measure particle size distribution and also can be set up under an optical microscope in the same condition.



High-Concentration Cell

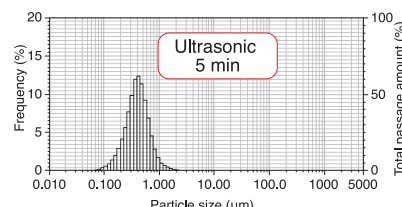
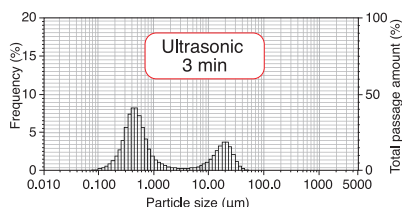
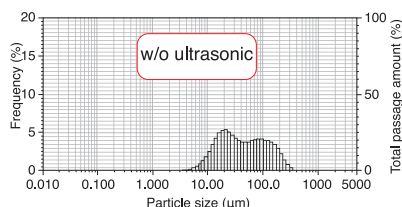


Optical microscope image

Small-volume circulation with organic solvents

- Measurement needs as small as 35 mL of solvent (180 mL with conventional circulation systems).
- Dispersion is possible with the built-in ultrasonic probe.

Example of dispersion evaluation of carbon black (with MiniFlow)



MiniFlow
(Circulation system)

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