HORIBA Scientific

Particle Disperser

XD-100

Particle Disperser

Powder dispersion made easy!



Features

- Uniform particles dispersion in a simple and intuitive operation
- A high degree of dispersion that is impossible manually
- Ideal sample preparation for challenging particle analysis with micro Raman, micro XRF, SEM or other microscopic techniques

Device configuration and operation



Manual Dispersion



Optical Image

Agglomeration and clustering can easily take place with conventional particle dispersion methods. For complex particle analysis techniques, these clusters which are detected as single, large particles can compromise the results of your analysis.

Dispersion with a Particle Disperser



Optical Image

Particle disperser allows you to obtain a well separated and uniform powder dispersion. This ensures that the dispersed samples provide precise and dependable results when using particle analysis techniques.

Well-separated particles dispersion makes it possible to conduct particle-by-particle measurement.

Examples: graphite, silica, alumina, toner, medical powder, etc.



Combining with other analytical techniques broadens the range of analysis

Marking specific particles is possible for complex analysis by micro Raman, SEM, and other microscopic techniques.

- Automatically locate individual
- Chemical ID of individual particles
- Particle size distribution and particle shape analysis
- Particle classification and sorting based on size, shape, and chemical information







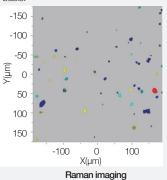
Raman Imaging Microscope

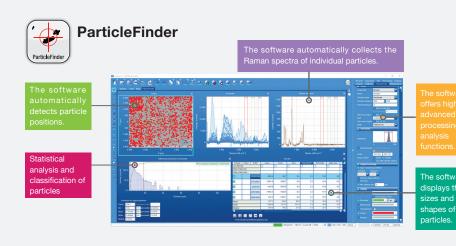
LabRAM Soleil

Example of particle analysis using Raman spectroscopy

Particles Disperser in combination with particle analysis software such as Particle Finder makes easy the automatic analysis of complex mixtures

The software automatically detects particles via an optical image, and automatically conducts Raman measurement on a particle-by-particle basis





Specification

Target sample	Dry powder and granular material
Sample amount	Approx. 0.02 g (differs depending on sample)
Dispersion method	In-chamber spray method using differential pressure
Dimensions	Chamber : 120 (W) × 120 (D) × 308 (H) mm Control Box : 210 (W) × 298 (D) × 308 (H) mm [Large as option] Chamber : 210 (W) × 210 (D) × 308 (H) mm Control Box : 210 (W) × 298 (D) × 308 (H) mm
Chamber material	Acrylic (PMMA)
Mass	13 kg [Large as option: 16 kg]
Power supply	100 V-240 V、50/60 Hz、50 VA

Consumables

- Tips
- : 500 pieces per package
- Film (Cell windows)
 - : 100 pieces per package
- PET sheet (Anti-contamination film)
 - : 80 pieces per package

The HORIBA Group adopts IMS (Integrated Management System) which integrates Quality Management System ISO9001, Environmental Management System ISO14001, and Occupational Health and Safety Management System ISO45001. We have now integrated Business Continuity Management System ISO22301 in order to provide our products and services in a stable manner, even in emergencies.



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