Automated Wet Dispersion Laser Particle Analyzer

This automated laser particle size analyzer uses laser diffraction technology to measure particle size in wet suspensions. Its automated system ensures consistent results for applications like pharmaceutical research and environmental monitoring.

Overview

High-Performance Automated Particle Analysis

The PA609LW is an intelligent, fully automated laser particle size analyzer designed for high-precision measurement of powder or latex samples. Featuring an imported He-Ne laser source and a robust, fully-enclosed optical platform, it delivers stable, reliable results with minimal preheating. The system includes an advanced automated sample feeding unit and intuitive software, making it an ideal solution for consistent, repeatable particle size distribution analysis in professional laboratory environments.

Measurement Performance

Measuring Range

0.1 μm	1000 μm
Lower Limit	Upper Limit

Key Performance Indicators

Metric	Value
Repeatability (D50)	<1%
Scan Frequency	1 kHz
Measurement Duration	1-2 minutes
Alignment Accuracy	0.5 μm

Technical Specifications

Optical System Details

- Theory: Mie scattering
- Light Source: Imported He-Ne laser
- Laser Power: > 2.0 mW
- Wavelength: 0.6328 μm
- Detector Count: 49

Sample Feeding System

- Type: Wet dispersion
- Pump Type: Centrifugal
- Motor Speed: 0-4000 r/min
- Sample Cell Capacity: 500 ml
- Ultrasonic Power: 50 W

Environment & Dimensions	
Physical Dimensions	838 x 265 x 295 mm (Mainframe)
Operating Environment	Temperature: 5-35°C, Humidity: <85%