LABTRON

Laser Particle Size Analyzer
LLPA-B1 Series

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Laser Particle Size Analyzer LLPA-B1 Series

Laser Particle Size Analyzer LLPA-B10

Laser Particle Size Analyzer LLPA-B10 is an intelligent dry laser particle size analyzer, comprised with MIE scattering principle and high-sensitive ring photoelectric detector, offers 0.1 µm to 2000 µm of measuring range. With Dry-turbulence dispersion mode and normal shock wave shear technique, features high-precision feeding device and 100 detector channels. Equipped with Semiconductor laser and high-precision automatic optical path calibration system, it offers automatic and manual operation mode and intelligent data analysis. With <1 min of test speed and results for particle distribution, cumulative value curve, and typical particle sizes, it also supports user-defined analyze results as per requirements.

Laser Particle Size Analyzer LLPA-B11

Laser Particle Size Analyzer LLPA-B11 is an intelligent dry laser particle size analyzer, comprised with MIE scattering principle and high-sensitive ring photoelectric detector, offers 0.1µm to 300 µm of measuring range. With Dry-turbulence dispersion mode and normal shock wave shear technique, features high-precision feeding device and 40 detector channels. Equipped with Semiconductor laser and high-precision automatic optical path calibration system, it offers automatic and manual operation mode and intelligent data analysis. With <1 min of test speed and results for particle distribution, cumulative value curve, and typical particle sizes, it also supports user-defined analyze results as per requirements.

Features

- Intelligent dry laser particle size analyzers, ensures accuracy of test results
- MIE scattering principle and high-sensitive ring photoelectric detector
- Different measuring range with different number of detector channels
- Dry-turbulence dispersion mode and normal shock wave shear technique
- High-precision feeding device, optimum results with precise feeding
- Semiconductor laser and high-precision automatic optical path calibration system
- Automatic and manual operation mode and intelligent data analysis
- <1 min of test speed, fast and accurate operation for repeatable results

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- Results for particle distribution, cumulative value curve, and typical particle sizes
- Also supports user-defined analyse results as per requirements
- Designed as per ISO13320-1:1999 standard configurations
- Highly-efficient, stable and reliable unit for fast, accurate and repeatable results

Application

Laser particle size analyzer is used to measure the sizes of particles in a material across cosmetics, food, coal, paint, paper, petrochemical, dyes, inks, explosives, kaolin, medicine, metal powder, mica, milling, minerals, oxides industries etc.

Specifications

Model	LLPA-B10	LLPA-B11
Dispersion Type	Dry	Dry
Measurement Range	0.1 to 2000 µm	0.1 to 300 µm
Channel number	100	40
Accuracy Error	<1% (National Standard Sample D50)	
Repeatability Error	<1% (National Standard Sample D50)	
Light Source	Semiconductor laser, λ = 632.8 nm, P > 2 mW, Service life > 25000 hours	
Detector	High-sensitive ring photoelectric detector	
Dispersion Mode	Dry-turbulence dispersion mode	
Dispersion Technique	Normal shock wave shear technique	
Feeding	Automatic vibration feeding	
Optical Path Alignment	Fully automatic	
Operation mode	Automatic/ Manual (Switchable)	
Standard	ISO 13320-1:1999	
Test Speed	<1 min/time	

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Software Running	WIN 7/10/XP, 64 bits	
Analysis mode	Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh number classification etc.	
Statistic Method	Volume Distribution, Quantity Distribution	
Test Report	Word, Excel, Photo(Bmp), Text etc.	
Interface	RS232	USB
Dimension (L×W×H)	1040×440×540 mm	880×410×300 mm
Net Weight	58 kg	36 kg