

AS-2011 MICRON LASER PARTICLE SIZE ANALYZER



Most Reliable and Cost-Effective Micron Laser Particle Size Analyzer

Hardware



Method I: Dispersing Unit



Method II: Small Cell Assembly



Laser & Optical Bench



1. Special Coating

External (corrosion resistant) and internal (Anti-reflective) coatings effectively shield the interference by unwanted light and reflecting walls. Special coating protects the laser diffraction and improves the analyzer performance.

2. Robust Light Source

Excellent monochromatic laser diode works for at least 25,000 hours. No work, no loss. Monochrome improves the accuracy and long lifetime extends the working life of laser particle size analyzer. A novel design integrates Fourier lens into the holder of laser diode which optimizes the light path alignment.

3. Stable Optical Bench

All major optical assemblies such as laser, cell holder and detection system are firmly fixed on one cast steel optical bench. This patented design uproots light path deviation, one of the major technical problems in the industry of particle size analysis.

4. Sensitive Photocells

High-resolution photocells make AS-2011 much more sensitive than any other particle size analyzer. Detection system array effectively captures the scattered light thus ensures the authenticity and accuracy of particle size characterization.

5. High-Speed Circuit Boards

Circuit boards of serial port, filtering, amplification and data transmit & process have a considerable advantage in speed over traditional ones. They work with new algorithm to give a satisfactory measurement time.

6. Versatile Small (Volume) Cell Assembly

The small cell assembly has found wide applications because of its very small fault rate and high reliability. Corrosion-resistant small cell can either hold water or other mediums. Micro silent agitator fully stirs up the suspension and improves the accuracy and repeatability.

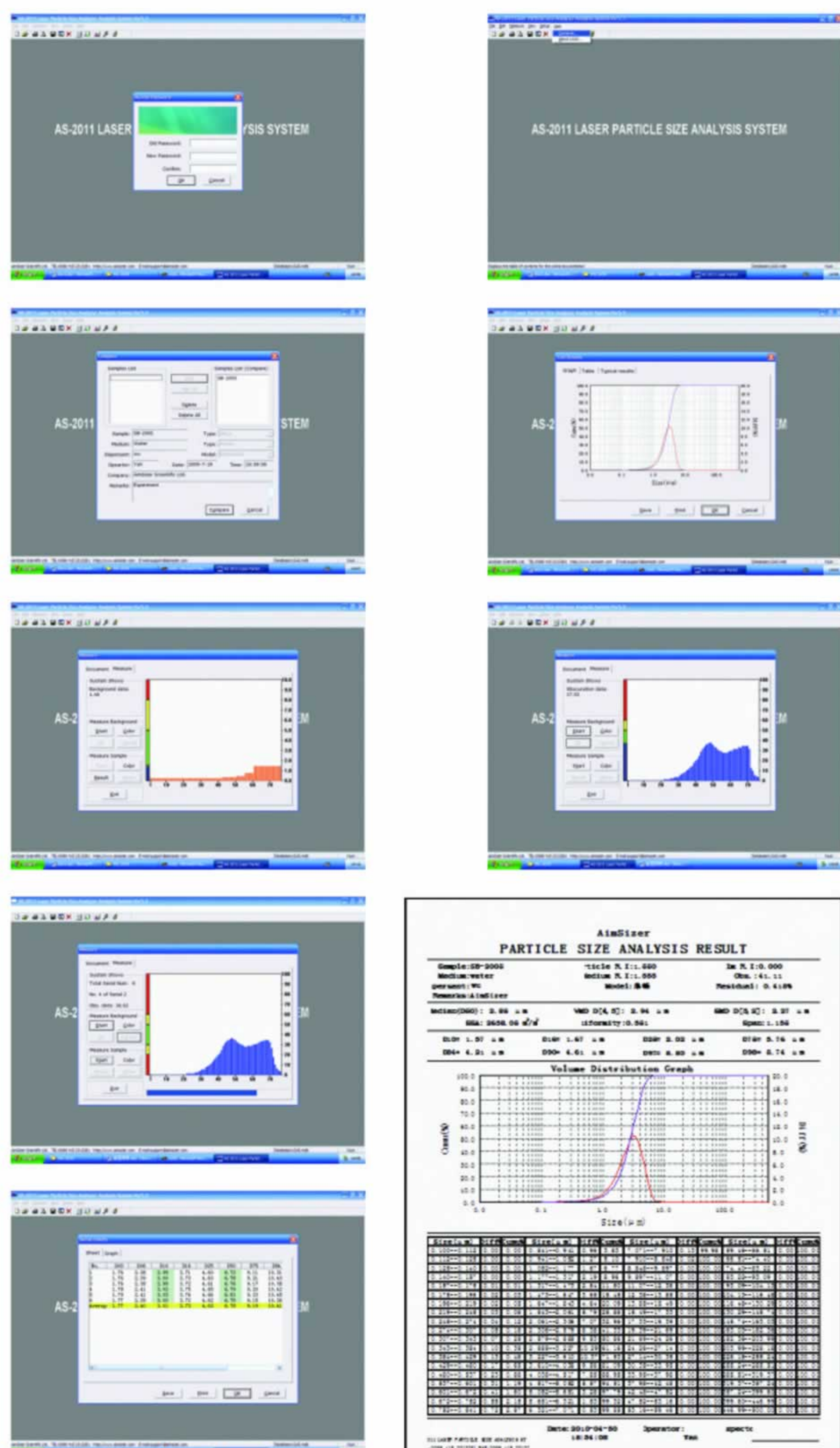
7. Optional AS20 Dispersing Unit

AS20 Dispersing Unit integrates functions of dispersing, agitating and circulating. It effectively suspends high-density particles in water to achieve a better accuracy. The panel of AS20 is simple and easy to use.

8. Ingenious Cell Holder

Patented cell holder makes the shift between small cell and flow cell assembly easy and safe.

Software



Specifications

Mie Scattering
 0.1-500um
 Accuracy<1%
 Repeatability<1%
 Laser Diode>25000hrs
 Measurement Time<60secs
 Windows XP
 220V 50Hz 80W
 Serial Port RS-232

1. Advanced Mie Scattering

AS-2011 laser particle size analysis system adopts the most advanced principle of Mie Scattering and gives the micron particles a scientific and objective particle size analysis.

2. Accurate & Fast Algorithm

A new algorithm has been designed which will be able to obtain the accurate results and greatly reduce the measurement time.

3. Flexible Parameters

In order to improve the correlation capability of AS-2011 with other laser particle size analyzers, AimSizer develops advanced and flexible parameters to make AS-2011 the preferred substitute of world renowned LPSAs. These parameters can provide users with the acceptable correlation results.

4. Safe Log on

User can log on particle sizing software in two ways: Administrator or Operator, only Administrator is authorized to modify the major settings of particle size analysis system, which greatly improves the security and stability.

5. Automatic Measurement

The automation starts with automatic error detecting on background and light path, and then size analysis is carried out automatically. In less than 60 seconds size distribution is displayed on the computer screen ready for exporting to Excel or print.

6. Comprehensive Analysis report

The result analysis report includes typical values, size distribution curve/histogram as well as table of size distribution in order to compare with other results respectively. User is also allowed to edit and customize the report.

7. Authoritative Validation & Traceability

Aimsizer validate each unit by measuring stable Certified Reference Material CRM SB2005, which ensures the performance of each analyzer and optimizes the traceability. The results obtained must agree with the standard values before export.

8. Satisfying Accuracy & Repeatability

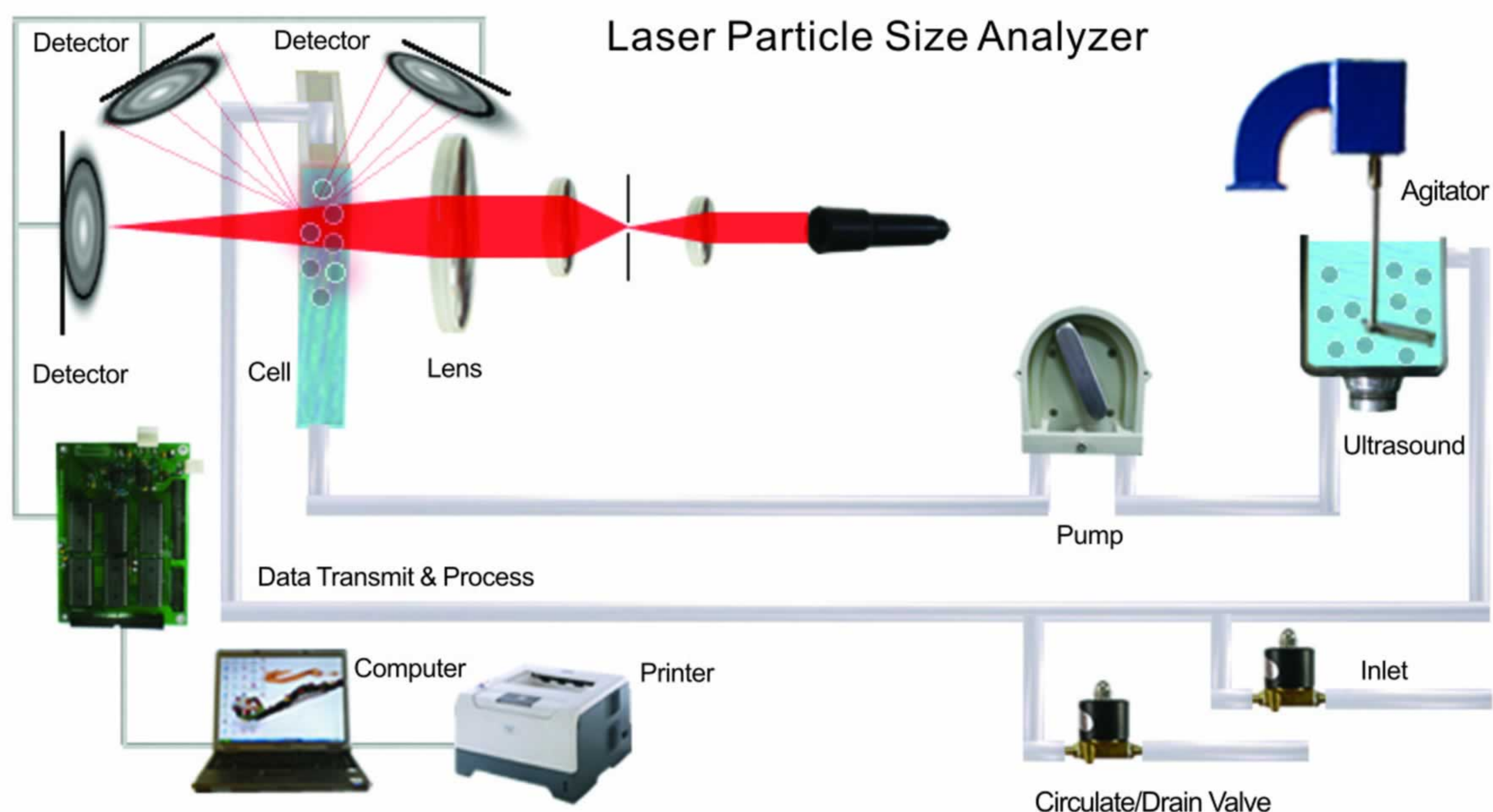
More than meeting the requirement of ISO13320-1 on accuracy and repeatability (<3%), AS-2011 further optimizes the reproducibility to a new level (<3%)



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sizer solutions

Schematics



Overview

AS-2011 Laser Particle Size Analyzer works with principle of Mie Scattering to precisely determine the particle size distribution from 0.1 to 500 micrometer. This equipment has a few advantages all its own. Robust laser diode and innovative photocells optimize the precision of static light scattering and give AS-2011 a longer operational lifetime. Patented optical bench uproots light path deviation, one of the major technical problems in the industry of particle size analysis. User-friendly program and advanced algorithm bring accuracy and repeatability qualification to International Norm ISO13320-1. AS-2011 has become the most reliable and cost-effective LPSA and being widely used in particle size characterization.

Applications

Abrasives, Adhesives, Agrochemical, Barite, Batteries, Bentonite, Boron Carbide, Brucite, Bubble, Calcite, Calcium Carbonate, Carbon Black, Catalysts, Cement, Ceramics, Chemicals, Clay, Coal, Coatings, Corundum, Cosmetics, Diamond Powder, Dolomite, Diatomite, Emulsion, Environmental, Explosives, Ferrite, Fluorescent, Fluorite, Food & Beverage, Food Additive, Graphite, Grinding, Inks, Kaolin, Medicine, Metal Powder, Mica, Milling, Minerals, Oxides, Paints, Paper, Petrochemical, Pharmaceuticals, Pigments, Plaster, Plastics, Polymers, Quartz, Refractory, Resins, Silica, Slurries, Soil Sediments, Sulfur, Synthetics, Talc, Toners, Tourmaline, Wollastonite, Zeolite, Zirconium Silicate etc in micron range.

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