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PARTICLE SIZE ANALYZER

Dry & Wet Laser Particle Size Analyzer

PSA-2L2308A

Advanced Detector Design improves measurement limit&resolution.

Wet& dry sample dispersion system design

Automatic&User-friendly one-key operation
Full built-in sampling system

Perfect accuracy and precision guaranteed

Features

- **Automatic&User-friendly one-key operation**
  Wet and dry sample dispersion system Integrated Design.
  Automatic&manual operation mode are designed to freely choose.
  realize one key to switch
- **Good dispersion structure**
  Full built-in Sample dispersion system ensures precise test result.
- **Perfect accuracy and precision guaranteed**
  Advanced Detector Design enhances the accuracy and stability of test results
  Instrument Software provides high precision data with 10Khz data acquisition time.

Description

PSA-2L2308A intelligent full automatic wet&dry laser particle size analyzer adopts laser diffraction theory(Mie and Fraunhofer diffraction), with its measure size from 0.01μm to 2000μm(dry 0.1μm-2000μm) that offers reliable and repeatable particle size analysis for a diverse range of applications. It uses dual-beam& multiple spectral detection systems and side light scatter test technology to significantly improve precision and performance of test. It's a prior choice for industrial production quality control departments and research institutions.

Specifications

	Model	PSA-2L2308A
Wet dispersion	Ultrasonic	Frequency:40KHz Power:60W, Time: ≥1S
	Stir	Revolutions Speed: 0-3000RPM (Adjustable)
	Circulate	Rated Flow:30L/min Rated Power:70W
	Sample tank	Volume:1000mL
	Micro-Sample cuvette	Volume: 10mL (Available)

модель	PSA-2L2308A
Measurment Standard	ISO 13320-1:2009,GB/T19007-2016,Q/0100JWN001-2013
	Compliance with 21 CFR Part 11
Measurment Principle	Laser diffraction principle
Analysis	Mie and Fraunhofer scattering
Detector Arrangement	Log-spaced array, test angle from 0.015 degree to 145 degree
Measurment Range	Wet:0.01μm-2000 μm Dry: 0.1μm-2000μm
Silicon Photodetectors	Wet:127PCS Dry:100 PCS
Accuracy error	Wet<1% Dry<1% (CRM D50)
Repeatability error	Wet<1% Dry<1% (CRM D50)
Light sourceS	Dual lens, He-Ne laser P>3.0 MW (λ= 632.8nm)
	Auxiliary green semiconductor laser (λ= 405 nm) P＞2.0MW ,
Laser Safety	Class 1
Dry dispersion	Dry-turbulence dispersion patent, normal shock wave shear technique
Feeding Speed	Adjustable (Variable speed knob)
Operation Mode	Full automatic / manual control, freely choose
Dispersion medium	Compressed Air, pressure: 0 to 6 bar
Optical bench alignment system	Full automatic, precision is up to 0.2um
Measurment Time	Wet: ＜2 Min Dry : <1min Typical measuring time<10S
Outer dimension(L*W*H)	104×44×54cm
Net Weight	70Kg

Wet Laser Particle Size Analyzer

PSA-LA2800A

Description

- PSA-LA2800A full automatic wet laser particle size analyzer adopt MIE scattering principle, with measure size from 0.01μm to 2000 μm, which offers reliable and repeatable particle size analysis for a diverse range of applications. It use dual-beam& multiple spectral detection systems and side light scatter test technology to significantly improve precision and performance of test, on behalf of the domestic advanced level in the field.

Specifications

Model	PSA-LA2800A
Standard	ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009
Measurmentt Principle	MIE scattering principle
Measurment Range	0.01μm-2000μm
Channels Number	127
Accuracy error	<1% (Deviation of D50 on national standard sample)
Repeatability error	<1% (Deviation of D50 on national standard sample)
Light sources	High performance He-Ne Laser (λ= 632.8nm, P>2MW)
	Lifetime>25000hours
Ultrasonic	Frequency:40KHz Power:35W, Time: ≥1S ,Anti-dry function
Sample Pool	Volume:350mL
Micro-Sample Pool	Volume: 10mL (Available)
Operation Mode	Full automatic/ manual control, freely choose
Resolution	Free distribution truly reflect particle size distribution
Optical bench alignment system	Japan Canon lens, Full automatic,precision is up to 0.1um
Measurment Time	<2min
Outer dimension (L*W*H)	66×32×40cm
Net weight	65Kg

Description

- Advanced Detector Design improves measurement limit,range&resolution.
- Full automatic built-in wet dispersion system
- Perfect accuracy and precision guaranteed
- Automatic&User-friendly one-key operation
- Time-saving and easier calibration method

Features

- Automatic&User-friendly one-key operation
  Intelligent Operation mode
  All processes including water-supply, dispersion, circulation, testing, cleaning, data record, data analysis, save and print are completed automatically
- Quicker and preciser measurements
  Measurement range is expanded to 0.01um.
  Advanced Detector Design enhances the accuracy and stability of test results
- Simplified calibration process
  Only once a year
- Time-saving dispersion
  Full automatic built-in wet dispersion system

Model		PSA-LA2800A
Dispersion Method	Stir	Revolutions Speed: 0-300RPM (Adjustable)
	Circulate	Rated Flow:8L/min Rated Power:10W
Software function	Analysis mode	Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh number classification etc.
	Statistic Method	Volume Distribution, Quantity Distribution
	Statistic Comparison	Several Testing Results of samples
		Different batches of samples testing result,
		Samples before and after processing,
		Test result of samples in different time.
	User-defined Analysis	Figure out percentage according to the particle size
		Figure out particle size according to the percentage
		Figure out percentage according to the particle size range
		Meet demands of representation of particle test in different industries
	Test Report	Word, Excel,Photo(Bmp), Text etc
	Multiple-language Support	Multiple language Support
	Intelligent operation	Automatically control water inflow, dispersion,test and analysis.Better Repeatability after remove human-factor

Wet Laser Particle Size Analyzer

PSA-LA2800B

Description

- Advanced Detector Design improves measurement limit,range&resolution.
- Full automatic built-in wet dispersion system
- Perfect accuracy and precision guaranteed
- Automatic&User-friendly one-key operation
- Time-saving and easier calibration method

Description

- PSA-LA2800B full automatic wet laser particle size analyzer adopts MIE scattering principle, with its measure size from 0.01μm to 1200 μm that offers reliable and repeatable particle size analysis for a diverse range of applications.It uses dual-beam& multiple spectral detection systems and side light scatter test technology to significantly improve precision and performance of test, on behalf of the domestic advanced level in the field.

Features

- **Automatic&User-friendly one-key operation**
  Intelligent Operation mode
  All processes including water-supply, dispersion, circulation, testing, cleaning, data record, data analysis, save and print are completed automatically
- **Quicker and preciser measurements**
  Measurement range is expanded to 0.01um.
  Advanced Detector Design enhances the accuracy and stability of test results
- **Simplified calibration process**
  Only once a year
- **Time-saving dispersion**
  Full built-in Sample dispersion system

Specifications

Model	PSA-LA2800B
Standard	ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009
Measurment Principle	MIE scattering principle
Measurment Range	0.01μm-1200μm
Photo detectors	127 PCS
Accuracy error	<1% (Deviation of D50 on national standard sample)
Repeatability error	<1% (Deviation of D50 on national standard sample)
Light sources	High performance He-Ne Laser (λ= 632.8nm, P>2MW)
	Semiconductor laser (λ= 650nm, P≥3MW)
Operation Mode	Full automatic/ manual control, freely choose
Resolution	Free distribution truly reflect particle size distribution
Optical bench alignment system	Full automatic,precision is up to 0.1um
Measurment Time	<2mins fastest measuring time<10S
Outer dimension(L*W*H)	66×32×40cm
Net weight	65Kg

	Model	PSA-LA2800B
Dispersion Method	Ultrasonic	Frequency:40KHz Power:35W, Time: ≥1S
	Stir	Revolutions Speed: 0-300RPM (Adjustable)
	Circulate	Rated Flow:8L/min Rated Power:10W
	Sample Pool	Volume:350mL
	Micro-Sample Pool	Volume: 10mL (Available)
Software function	Analysis mode	Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh number classification etc.
	Statistic Method	Volume Distribution, Quantity Distribution
	Statistic Comparison	Several Testing Results of samples
		Different batches of samples testing result,
		Samples before and after processing,
		Test result of samples in different time.
	User-defined Analysis	Figure out percentage according to the particle size
		Figure out particle size according to the percentage
		Figure out percentage according to the particle size range
		Meet demands of representation of particle test in different industries
	Test Report	Word, Excel,Photo(Bmp), Text etc
	Multiple-language Support	Multiple language Support
	Intelligent operation	Automatically control water inflow, dispersion,test and analysis.Better
		Repeatability after remove human-factor

Wet Laser Particle Size Analyzer

PSA-LA2600A

- Size Range: 0.01μm-1000μm
- Advanced light path design
- Built-in intelligent liquid dispersion units
- Three dimension automatic light path alignment system
- Users can freely select between manual and automatic modes

Application

- Abrasives, adhesives, agrochemicals, 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, emulsions, environmental protection, explosives, ferrite, flour, fluorescent materials , fluorite, food and beverages, food additives, graphite, grinding , ink, kaolin, medicine, metal powder, mica, milling, minerals, oxides, paints, paper, petrochemicals, pharmaceuticals, pigments, gypsum, plastics, polymers, quartz, refractory materials, resins, silica, slurry, soil sediments, starch, sulfur, synthetic materials, talc, Toners, tourmaline, wollastonite, zeolite, zirconium silicate, etc.

Features

Advanced Light Path Design

The converging light Fourier transform technology releases scattered light with large scattering angles from the restriction of the Fourier lens aperture, shortens the focal length, and improves the resolution of the instrument.

The ring-shaped multi-element silicon photo-diode ensures that the light signals of all particles are collected, greatly improving the resolution.

Built-in Intelligent Liquid Dispersion Units

The stirring mechanism, ultrasonic dispersing unit, and sample circulation pipes are carefully aligned and integrated internally.

This built-in design effectively prevents issues such as inhomogeneous dispersion and the sedimentation of large particles, which commonly occur in external systems due to their excessively long sample circulation pipes. Consequently, the sample is uniformly and sufficiently dispersed.

User-friendly Operation

Users can freely select between manual and automatic modes to conduct measurements based on the sample's characteristics. Under certain conditions (e.g., when the sample has unknown features or special measurement requirements exist), users may first perform a test measurement in manual mode. Once they have a clear understanding of the sample's characteristics and measurement conditions, they can measure the samples in the automatic mode.

Unconstrained Free Fitting Analysis Techniques

The particle analysis software uses an unconstrained data fitting analysis technique to obtain the the real particle size distribution data, which is particularly important for researchers.

Modern Measurement Control (Intelligent Sop Operation)

Users can perform all measurement procedures by simply operating on the PC and obtain ideal results in a very short time.

Features

Three Dimension Automatic Light Path Alignment System

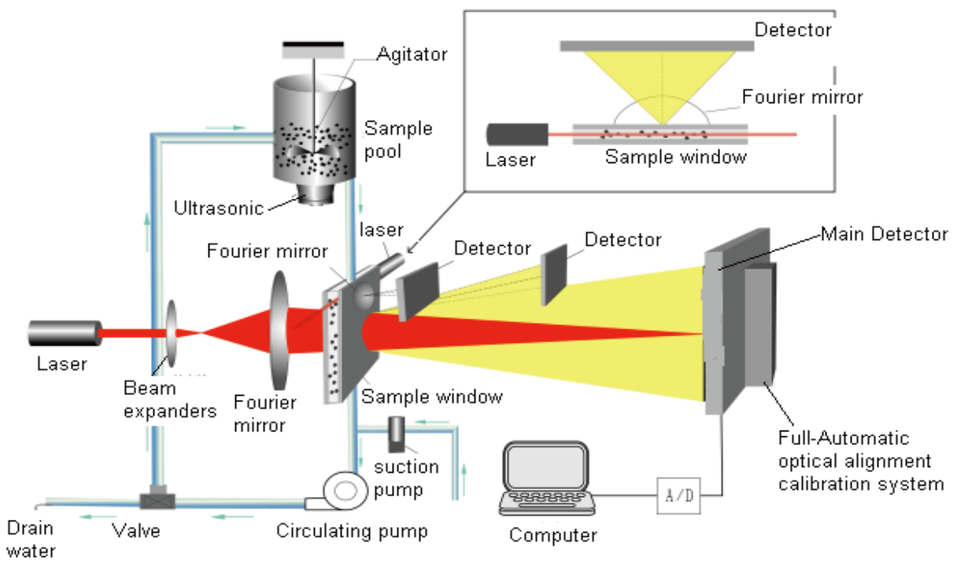
A high-precision four-phase hybrid stepping motor automatically aligns and dynamically adjusts the optical path with a precision of up to 0.1 μm. This frees users from manual adjustments, improving the accuracy and stability of measurement results.

Quick Measurements

In “Automatic” mode, all operational procedures are performed automatically, including water supply, stirring, circulation, background testing, sample testing, analysis, draining, and cleaning. This significantly reduces measurement time, with the entire process taking less than 2 minutes.

Data Analysis

Data errors are rejected, and the measurement results are processed automatically. This eliminates the need for manual data processing and ensures standardized output.



Optical Path scheme

Specification

Model		PSA-LA2600A
Measuring Principle		Laser light scattering
Analysis		Mie and Fraunhofer scattering
Size Range		0.01μm-1000μm
Detectors		87pcs./Log-spaced array/High sensitive/Photoelectric probe
Accuracy Error		<0.5% (Deviation of D50 on national standard sample)
Repeatability Error		<0.5% (Deviation of D50 on national standard sample)
Laser		High performance Fiber Laser λ= 639nm, p>2mW Auxiliary laser λ=405nm, p>2mW
Wet Dispersion	Ultrasonic	Frequency:40kHz, Power:60W, Time:≥1s
	Agitator	Revolutions Speed: 0-3000 rpm (Adjustable)
	Circulation	Centrifugal pump, Rated flow:3-8L/min, Rated power:15W
	Sample tank	Volume: 450mL
Operation Mode		Manual and Full automatic
Optics		Red light source/Reverse Fourier (convergent beam)
Optical Alignment System		Full automatic optical path alignment system
Software Function	Analysis mode	Free distribution, R-R Distribution, Logarithm normal distribution, Mesh number classification etc.
	Statistic method	Volume distribution, Quantity distribution
	Statistic comparison	Several testing results of samples, Different batches of samples testing result, Samples before and after processing, Test result of samples in different time
	User-defined analysis	Figure out percentage according to the particle size Figure out particle size according to the percentage Figure out percentage according to the particle size range Meet demands of representation of particle test in different industries
	Test report	Word, Excel, JPG, Text and etc.
	Multiple-language support	Multiple language support
	Intelligent operation	Automatically control water inflow, dispersion, test and analysis; Better repeatability after removing human factors;
Testing Speed		<2min/time (including all the procedures), fastest measuring time<10s
Running Temperature		15℃~35℃
External Dimension (L*W*H)		850*390*450mm
Net Weight		40kg

Wet Laser Particle Size Analyzer

PSA-LA2600B

- Size Range: 0.1μm-1000μm
- Advanced light path design
- Built-in intelligent liquid dispersion units
- Three dimension automatic light path alignment system
- Users can freely select between manual and automatic modes

Application

- Abrasives, adhesives, agrochemicals, 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, emulsions, environmental protection, explosives, ferrite, flour, fluorescent materials , fluorite, food and beverages, food additives, graphite, grinding , ink, kaolin, medicine, metal powder, mica, milling, minerals, oxides, paints, paper, petrochemicals, pharmaceuticals, pigments, gypsum, plastics, polymers, quartz, refractory materials, resins, silica, slurry, soil sediments, starch, sulfur, synthetic materials, talc, Toners, tourmaline, wollastonite, zeolite, zirconium silicate, etc.

Features

Advanced Light Path Design

The converging light Fourier transform technology releases scattered light with large scattering angles from the restriction of the Fourier lens aperture, shortens the focal length, and improves the resolution of the instrument.

The ring-shaped multi-element silicon photo-diode ensures that the light signals of all particles are collected, greatly improving the resolution.

Built-in Intelligent Liquid Dispersion Units

The stirring mechanism, ultrasonic dispersing unit, and sample circulation pipes are carefully aligned and integrated internally.

This built-in design effectively prevents issues such as inhomogeneous dispersion and the sedimentation of large particles, which commonly occur in external systems due to their excessively long sample circulation pipes. Consequently, the sample is uniformly and sufficiently dispersed.

User-friendly Operation

Users can freely select between manual and automatic modes to conduct measurements based on the sample's characteristics. Under certain conditions (e.g., when the sample has unknown features or special measurement requirements exist), users may first perform a test measurement in manual mode. Once they have a clear understanding of the sample's characteristics and measurement conditions, they can measure the samples in the automatic mode.

Unconstrained Free Fitting Analysis Techniques

The particle analysis software uses an unconstrained data fitting analysis technique to obtain the the real particle size distribution data, which is particularly important for researchers.

Modern Measurement Control (Intelligent Sop Operation)

Users can perform all measurement procedures by simply operating on the PC and obtain ideal results in a very short time.

Features

Three Dimension Automatic Light Path Alignment System

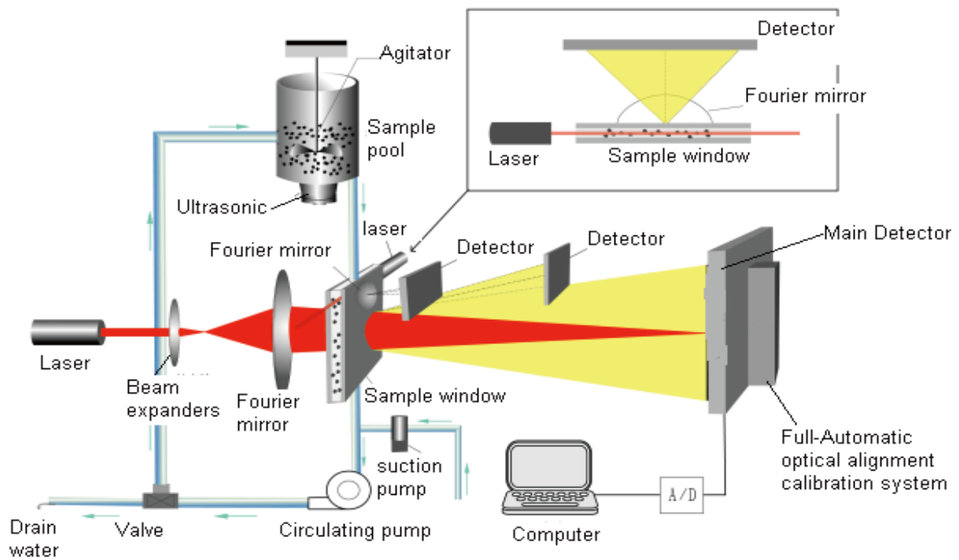
A high-precision four-phase hybrid stepping motor automatically aligns and dynamically adjusts the optical path with a precision of up to 0.1 μm. This frees users from manual adjustments, improving the accuracy and stability of measurement results.

Quick Measurements

In “Automatic” mode, all operational procedures are performed automatically, including water supply, stirring, circulation, background testing, sample testing, analysis, draining, and cleaning. This significantly reduces measurement time, with the entire process taking less than 2 minutes.

Data Analysis

Data errors are rejected, and the measurement results are processed automatically. This eliminates the need for manual data processing and ensures standardized output.



Optical Path scheme

Specification

Model		PSA-LA2600B
Measuring Principle		Laser light scattering
Analysis		Mie and Fraunhofer scattering
Size Range		0.1μm-1000μm
Detectors		87pcs./Log-spaced array/High sensitive/Photoelectric probe
Accuracy Error		<1% (Deviation of D50 on national standard sample)
Repeatability Error		<1% (Deviation of D50 on national standard sample)
Laser		High performance Fiber Laser λ= 639nm, p>2mW
Wet Dispersion	Ultrasonic	Frequency:40kHz, Power:60W, Time:≥1s
	Agitator	Revolutions Speed: 0-3000 rpm (Adjustable)
	Circulation	Centrifugal pump, Rated flow:8L/min, Rated power:10W
	Sample tank	Volume: 450mL
Operation Mode		Manual and Full automatic
Optics		Red light source/Reverse Fourier (convergent beam)
Optical Alignment System		Full automatic optical path alignment system
Software Function	Analysis mode	Free distribution, R-R Distribution, Logarithm normal distribution, Mesh number classification etc.
	Statistic method	Volume distribution, Quantity distribution
	Statistic comparison	Several testing results of samples, Different batches of samples testing result, Samples before and after processing, Test result of samples in different time
	User-defined analysis	Figure out percentage according to the particle size Figure out particle size according to the percentage Figure out percentage according to the particle size range Meet demands of representation of particle test in different industries
	Test report	Word, Excel, JPG, Text and etc.
	Multiple-language support	Multiple language support
	Intelligent operation	Automatically control water inflow, dispersion, test and analysis; Better repeatability after removing human factors;
Testing Speed		<2min/time (including all the procedures), fastest measuring time<10s
Running Temperature		15℃~35℃
External Dimension (L*W*H)		850*390*450mm
Net Weight		40kg

Wet Laser Particle Size Analyzer

PSA-LA2000

Description

- Advanced Detector Design improves measurement limit&resolution
- Full built-in sampling system
- Perfect accuracy and precision guaranteed
- Micro sample chamber
- Automatic&User-friendly one-key operation

Specifications

Model	PSA-LA2000
Standard	ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009
Measurment Principle	MIE scattering principle
Measuring Range	0.1μm-300μm
Channels Number	39 PCS
Accuracy error	<1% （CRM D50）
Repeatability error	<1% （CRM D50）
Light sources	High performance He-Ne Laser (λ= 632.8nm, P>2MW)
	Lifetime>25000hour
Operation Mode	Full automatic and manual control, freely choose
Output parameter	D10,D50,D90,D100,S/V referent parameters
Optical Calibration System	Full automatic
Measurment Time	<2mins
Dimensions(L*W*H)	88×39×46cm
Net Weight	41Kg

Features

- **Highly improved resolutio**
  A patented technique of Fourier transform.
- **Time-saving dispersion**
  Built-in dispersion units
  Homogeneous dispersion and sedimentation of big particles
- **Unconstrained fitting techniques:**
  real particle size distribution
  Micro sample chamber (optional):
  10ml capacity of the sample chamber
- **Automatic&User-friendly one-key operation**
  Intelligent SOP Operation
  Two options including manual and automatic modes
  Perform test, alignment, water supply, drainage, bubble removing, ultrasonic dispersion, cleaning etc. automatically
- **Quicker and preciser measurements**
  Fully Automatic Laser Alignment
  The full process < 2 minutes.

Description

PSA-LA2000 intelligent laser particle size analyzer is mainly used for performing tests, alignment,water supply,drainage,bubble removing, ultrasonic dispersion, cleaning etc.automatically, really realizing one-key operation. It is designed to adopt :full built-in sampling system,Original designed unconstrained free fitting software technology, ensures good accuracy with comprehensive Laser diffraction particle size measurement principle. This equipment especially suits the laboratories of enterprises, colleges and universities and research institutes to use.

	Model	PSA-LA2000
Dispersion Method	Ultrasonic	Frequency:40KHz Power:50W, Time: ≥1S
	Stir	Revolutions Speed: 0-3000RPM (Adjustable)
	Circulate	Rated Flow:8L/min Rated Power:10W
	Sample Pool	Volume:350mL
	Micro-Sample Pool	Volume: 10mL（Available）

Wet Laser Particle Size Analyzer

PSA-L2000

Description

- As high efficient-cost model, PSA-L2000 laser particle size analyzer with wet dispersion is most economical and popular since launched.
- After more than ten years of tests and numerous technical improvements, the structure and software are very mature and perform stably, meeting industrial testing general requirements.

Features

- High efficient-cost model, semi automatic operation.
- Full built-in integrated dispersion system
- Perfect accuracy and precision guaranteed
- Advanced Detector Design improves testing efficiency&resolution

Advantages

- Semi-automatic&User-friendly one-key operation
  Water inflow, dispersion,test and analysis are controlled automatically.
  Multi-language Support, Chinese&English (Others are available)
- Perfect accuracy and precision guaranteed
  Excellent data processing ensures test result accuracy in different situations
  User-defined Analysis
  Unique unconstrained free fitting technology, make particle analysis not restricted by any function, truly reflect particles distribution, ensure the good accuracy.
- Advanced Detector Design improves measurement limit&resolution.
  Converging light Fourier transform light path, efficiently improve resolution ratio of sub-micron particles.

Specifications

Model		PSA-L2000
Standard		ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009
Measurment Range		0.1μm-300μm
Channels Number		39
Accuracy error		<1% (National Standard Sample D50)
Repeatability error		<1% (National Standard Sample D50)
Light sources		High performance He-Ne Laser (λ= 632.8nm, P>2MW,Life >25000hour)
Dispersion Method	Ultrasonic	Frequency:40KHz Power:35W, Time: ≥1S
	Stir	Revolutions Speed: 0-300RPM (Adjustable)
	Circulate	Rated Flow:8L/min Rated Power:10W
	Sample Pool	Volume:350mL
	Micro Sample Pool	Volume: 10mL (Optional)
Operation Mode		Display control+computer analysis
Optical Calibration System		Manual
Measurment Time		<2min
Dimensions(L*W*H)		66×32×40cm
Net Weight		25Kg

Intelligent Laser Particle Size Analyzer

PSA-LD3008A PSA-LD3008B

Description

- Advanced Detector Design improves measurement limit&resolution.
- Perfect accuracy and precision guaranteed
- Both manual and fully automatic modes are supported
- Particle distribution, cumulative value curve and typical particle sizes(D10, D50, D90.) user-defined analyze result are provided.
- Flexible test report output and display forms

Specifications

Model	PSA-LD3008A	PSA-LD3008B
Standard	ISO 13320-1:1999；GB/T19077.1-2308；Q/0100JWN001-2013	
Measurment Principle	MIE Scattering Principle	
Measurment Range	0.1μm -2000μm	0.1μm -1200μm
Detector Channels Number	100 PCS	80 PCS
Accuracy error	<1% (Deviation of D50 on national standard sample)	
Repeatability error	<1% (Deviation of D50 on national standard sample)	
Light sources	He-Ne laser (λ= 632.8nm,	
	P>2.0MW Service time>25000hour)	
Dispersion	Dry-turbulence dispersion mode, normal shock wave shear technique	
Operation Mode	Manual & Full automatic	
Feeding	Automatic vibration feeding	
Optical Calibration System	Automatic	
Measurment Time	<1min	
Power supply	220V	
Dimensions(L*W*H)	105×44×54cm	
Net Weight	58Kg	

Description

- PSA-LD3008 is intelligent dry laser particle size analyzer, supporting both manual and full automatic operation modes. Based on MIE scattering principle, Converging light Fourier transform light path, Highly stable He-Ne laser and High sensitive ring photoelectric detector, it guarantees good repeatability and accuracy.It uses air as dispersion medium, and use turbulent dispersion principle with High precision feeding device, patent powder spray pump and oil-free silent gas source to guarantee the samples to be fully dispersed. It's fit for any dry powder materials, especially the powder that takes chemical reaction with water or changes its shape in liquid. It has same accuracy and repeatability compared to the wet laser particle size analyzer.

Features

- **Highly improved resolution**
  A patented technique of Fourier transform
  High precision-automatic optical path calibration system
- **Human-based operation mode**
  Manual and Full automatic, easy to choose.
  Multiple results
- **Extended lifespan**
  Wearable ceramics improve dispersion system's working life.

	Model	PSA-LD3008A	PSA-LD3008B
Software function	Analysis mode	Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh	
		number classification etc.	
	Statistic Method	Volume Distribution, Quantity Distribution	
	Statistic Comparison	Several Testing Results of samples	
		Different batches of samples testing result,	
		Samples before and after processing,	
		Test result of samples in different time.	
	User-defined Analysis	Figure out percentage according to the particle size	
		Figure out particle size according to the percentage	
		Figure out percentage according to the particle size range	
		Meet demands of representation of particle test in different industries	
	Test Report	Word, Excel,Photo(Bmp), Text etc	
	Multiple language Support	Multiple language Support	
	Intelligent operation	Better Repeatability after remove human-factor	

Dry Laser Particle Size Analyzer

PSA-LD3003A

Advantages

Automatic&User-friendly operation

- Advanced Detector Design improves measurement limit&resolution

Good dispersion structure

- Scientific and automatic dry dispersing system extends lifespan

Perfect accuracy and precision guaranteed

- Advanced Detector Design enhances the accuracy and stability of test results
- Instrument Software provides high precision of testing result

Technical Parameters

- PSA-LD3003 is a universal dry dispersion laser particle size analyzer is designed to have the scientific structure design and a new generation of dispersion device,making the dispersion effect is better than similar instruments.
- This equipment uses MIE scattering theory as the theoretical basis, converging Fourier transform optical path, and with high stability and He-Ne laser high-sensitivity photodetectors ring ensures repeatability and accuracy of test results.
- This product uses air as the dispersing medium, with turbulent dispersion principle, high-precision feeding apparatus, Patent powder injection pumps and No-Oil silent air source to ensure that the sample is thoroughly dispersed.
- It is applied to any powder material, particularly good for materials occurs chemical reaction in water, or shape change in the liquid. It has same accuracy and repeatability compared with the wet method.

Specifications

Model		PSA-LD3003A
Size Range		0.1μm-300μm
Standard		ISO13320-1:1999，GB/T19077.1-2008，Q/0100JWN001-2013
Channels Number		40 pcs
Accuracy error		<1% （Deviation of D50 on national standard sample）
Repeatability error		<1% （Deviation of D50 on national standard sample ）
Light Sources		He-Ne laser (λ = 632.8nm, P>2.0MW)
Dispersion Method		Dry-turbulence dispersion mode
Operation Mode		Manual/Automatic
Optical Path Calibration System		Automatic
Dispersing Medium		Compressed air
Measurment Time		<1min
Operation System		Win 7
Interface		USB
Software function	Analysis mode	Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh number classification
	Statistic Method	Volume Distribution, Quantity Distribution
	Statistic Comparison	Several Testing Results of samples Different batches of samples testing result, Samples before and after processing, Test result of samples in different time.
	User-defined Analysis	Figure out percentage according to the particle size Figure out particle size according to the percentage Figure out percentage according to the particle size range Meet demands of representation of particle test in different industries.
	Test Report	Word, Excel,Photo(Bmp), Text etc
	Multi-language Support	Chinese&English
	Intelligent Operation Mode	Automatically control Air flow speed, dispersion,test and analysis.Better Repeatability after remove human-factor
Dimensions (L*W*H)		88×40×30cm
Net Weight		36Kg

Nano Laser Particle Size Analyzer

PSA-N802

Advantages

High-Quality Construction

- Dynamic light scattering principle & photon correlation spectrum technology
- PCR technology
- CR256 digital correlation

Quiet Operation

- Imported HAMAMATSU photomultiplier provides high sensitivity

Guaranteed Accuracy and Precision

- High noise-signal ratio.
- High speed data collection and calculation
- High stable optical path system
- High precision constant temperature control system

Advanced test principle , technology & detector design

- High-quality data collection and calculation
- Well-designed stable optical path system

Size Analyzer

- Advanced test principle &technology
- High resolution with 8ns resolution speed.
- Advanced Detector Design improves measurement speed and accuracy
- Efficient data collection and calculation
- Well-designed stable optical path system

- PSA-N802 dynamic light scattering nanometer particle size analyzer, based on the dynamic light scattering principle, is the first one to use digital correlator in China. Based on Brownian motion principle, smaller particle, faster speed, bigger particle, more slowly. It adopt great performance of Japan HAMAMATSU photo-multiplier and self-developed high speed digital correlator as core parts, get diffusion coefficient by test scattering light change in some angle, and calculate particle diameter and distribution according to stokes-Einstein equation. The machine is characterized by fast calculation, high resolution ration, good accuracy and repeatability, therefore it's widely used in company product lab research and university use

Specifications

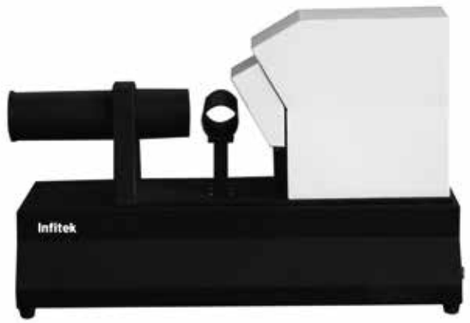
Model		PSA-N802
Standard		GB/T 19627-2005/ISO 13321:1996
		GB/T 29022-2012/ISO 22412:2008
Measure range		1nm-10000nm
Concentration range		0.1mg/ml⊠--100mg/ml
Accuracy error		<1%(D50 of National standard sample)
Repeatability error		<1% (D50 of National standard sample)
Light source		Semiconductor laser λ= 532nm P=30mW
Detector		Imported HAMAMATSU photo-multiplier
Scattering angle		90o
Sample cuvette		1-4mL
Temperature control		5-40 ℃ temperature controller within 0.1
Test Measurment Time		<5 Min
Outer Dimensions(L*W*H)		48×27×17cm
G.W.		12Kg
Operation system		Win 7/Win 10 64 bits
Analysis		Average particle diameter, particle distribution, photon counting rate etc.
Digital Correlato	Model	CR256
	Auto-correlation channels	256
	Baseline channel	4
	Unit delay time	100ns-10ms

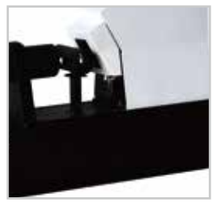
Spray Laser Particle Size Analyzer

PSA-LS311XP

Description

- PSA-LS311XP desktop spray laser particle size analyzer is designed and developed specially for the droplet particle size distribution test of small spray equipment.
- It integrates a number of patent technologies including lens protection devices.
- It can measure droplets particles in the air without touch.





- It's mainly applied to medical atomizer, atomization medicine, various aerosol, spray and other small spray equipment, especially suitable for the national pharmacopoeia for inhalation aerosol, spray, powder mist and other particle size testing requirements.

Features

- Highly improved resolution
- A patented technique of Fourier transform .
- The measurement limit and resolution of the instrument are improved.
- Protective air flow protection device
- Lens are effectively protected to avoid droplet pollution of the lens in the testing process.

Specifications

Model	PSA-LS311XP
Execute Standard	ISO13320:2009, GB/T19077-2016,Q/0100JWN001-2013
Size Range	0.1-100μm
Detector Channels Number	40 PCS
Accuracy error	<1% (CRM D50)
Repeatability error	<1% (CRM D50)
Light source	Semiconductor λ= 650nm p>1mw
Feeding	open
Measurement area length	6cm
Dimensions(L*W*H)	66×26×45cm
N.W.	19Kg

Spray Laser Particle Size Analyzer

PSA-SI319A

- Exclusive patent technology
- Protective airflow device
- Versatile structure design
- Efficient optical path alignment system
- Multiple size distribution model

Features

Exclusive patent technology

- Parallel optical testing technology
- Spectrum amplification technique
- Auxiliary integration photoelectric detector
- Unique Airflow Protection Device

Len&User-friendly device

- airflow protection device
- Split-Type Structure Design

Advanced system and model

- Table automatic optical path alignment system
- Multiple size distribution model

Description

PSA-SI319 is a specially designed and developed bench-top spray laser particle size analyzer for droplet size test. This instrument adopts Fraunhofer diffraction principle and parallel light path design with high-performance and high-power laser, lifetime>25000hours, which can meet the requirements of droplet test, with its range can be adjusted according to the customers' requirement.

Specifications

Model	PSA-SI319A
Executive Standard	ISO13320-1：1999，GB/T19077.1-2008，Q/0100JWN001-2013
Principle	Fraunhofer diffraction principle
Instrument Structure	Split-Type
Testing Range	1μm-500μm
Number of Channels	50 pcs
Accuracy error	<1% (Reference to CRM D50)
Repeatability error	<1% (Reference to CRM D50)
Reproducibility between instruments	<1% (Reference to CRM D50)
Data Acquisition Rate	≧2KHZ
Laser	LD Pump Laser； λ=532nm, p>40mw, life time>25000 hour
Laser safety	Class 3B
Air purging system	Equipped with airflow protection device, which can effectively protect the lens and avoid droplet pollution to lens in testing process.
Sampling Mode	Open Style
Optical alignment system	Automatic
Working temperature	10-40°C
Environment humidity	≤75%
Operation platform	Common model, Windows 7/8/10 (64 bits) need install Office 2003
Output parameters	Particle volume distribution curve, D10-D100 any parameters
Testing Area Length	0.1-10m/adjustable
Lens Protection	Double gas episodic
Outer Dimension	Transmit port: L369*W295*H360mm Receive port:L858*W295*H360mm
Electricity	220V, 50Hz
Weight	68Kg