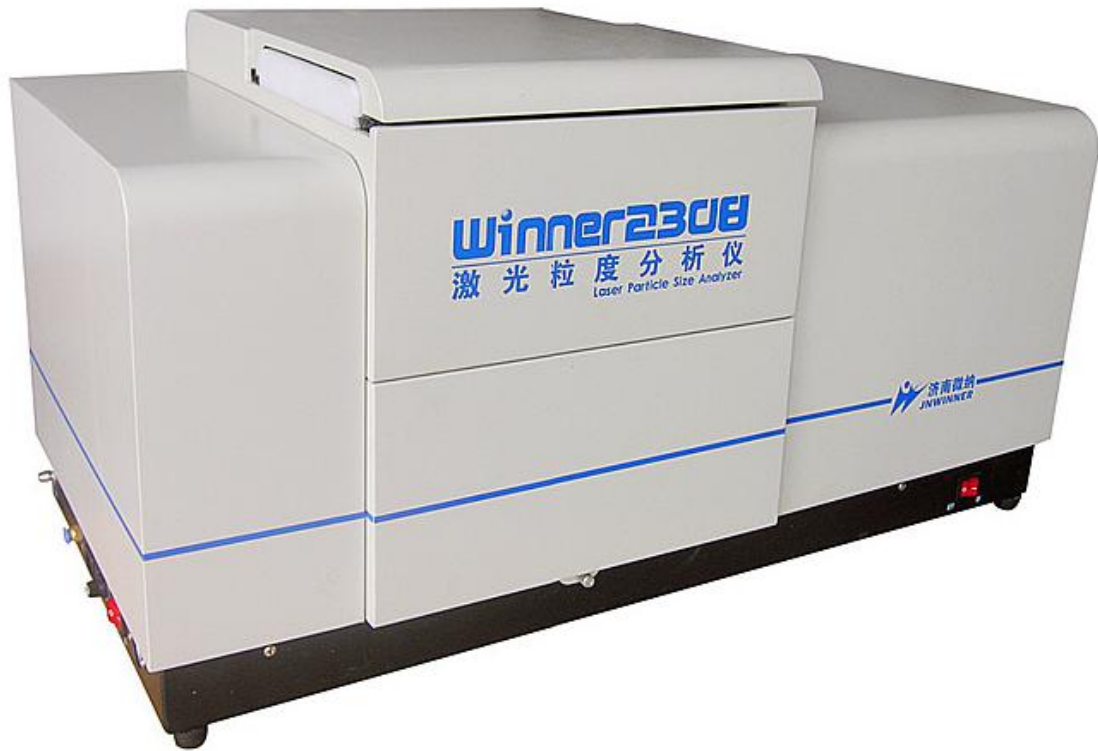


Winner-2308A Intelligent Wet and Dry Laser Particle Size Analyzer



1. Brief introduction:

Winner2308A intelligent full automatic wet&dry laser particle size analyzer adopt full MIE scattering principle, measure size is from 0.01um to 2000um(dry 0.1um-2000um), Which offer 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, It's the prior choice for industrial production quality control departments and research institutions.

2. Main Specifications:

Model Name		Winner2308A
Standard		ISO 13320-1:2009,GB/T19007-2016,Q/0100JWN001-2013 Compliance with 21 CFR Part 11
Principle		Laser diffraction principle
Measuring Range		Wet:0.01-2000 micron Dry: 0.1-2000 micron
Channels Number		Wet:127 Dry:100
Accuracy error		Wet<0.5% Dry<1% (CRM D50)
Repeatability error		Wet<0.5% Dry<1% (CRM D50)
Light source		Dual lens, He-Ne laser P>3.0 MW ($\lambda=632.8\text{nm}$) Auxiliary semiconductor laser ($\lambda=532\text{nm}$) P>2.0MW
Wet dispersion	Ultrasonic	Frequency:40KHz Power:60W, Time: $\geq 1\text{S}$
	Stir	Revolutions Speed: 0-3000RPM (Adjustable)
	Circulate	Rated Flow:30L/min Rated Power:70W
	Sample Pool	Volume:1000mL
	Micro-Sample Pool	Volume: 10mL (Available)
Dry dispersion		Dry-turbulence dispersion patent, normal shock wave shear technique
Operation Mode		Full automatic / manual control, freely choose
Optical bench alignment system		Full automatic, precision is up to 0.2 μm
Test Speed per time		Wet: <2 Min Dry : <1min typical measuring time<10S
Outer dimension		L104cm×W44cm×H54cm
Net Weight		70Kg

3. Main Features:

1)Wet and dry sample dispersion system Integrated Design

Winner2308 intelligent laser particle size analyzer which is 1st set laser particle size analyzer integrated wet and dry dispersion test in one in China, it successfully resolved the problem of dry and wet technology integration, realize one key to switch, apply to test all the particle size distribution from 0.01-2000 μm particles.

2) Intelligent full automatic operation system and manual operation mode, freely choose.

With intelligent automatic mode of operation, to achieve a key test, as long as according to the prompt addition of sample, click the "test", all process will be complete automatically, not only reduce the testing workload, but also eliminate the interference of human factors, to further improve the accuracy and authenticity of testing results.

Wet method: A key to complete water-supply, dispersion, circulation, testing, cleaning, data record, data analysis, save and print are automatically completed, only take 2 mins.

Dry method: A key to complete the dust collecting, air supply, feeding, testing, data processing and other operation, take 1 min.

3) Stable and unique optical path system patented technology

Converging light Fourier transform path system, enables scattering light be not restricted to the lens aperture limit, and Dual-laser orthogonal light technology make use of the semiconductor auxiliary laser extend the test angle from 45 degree to 135 degree, ensure receive all the angles of signals.

4) Automatic Optical path alignment System,

The precision of four hybrid stepping motor in the automatic system of optical components, micro precision of 0.1um, the instrument of light path is always at its best to eliminate manually on the light path and the troubles and difficulties but also enhance the accuracy and stability of test results.

5) Full built-in Sample dispersion system.

Auto wet dispersion system, SOP realize one key operation.

set mechanical stirring, ultrasonic dispersion, and circulation path in one, It ensures particles uniform dispersion and distribution, avoids many bad phenomenon, such as uneven distribution of particles, large particles deposit because of the long outer dispersing system tube, And it guarantees the representativeness of test result.

For dry dispersion system, Turbulence dispersion patented technology and Normal shock shearing effect, make particles sufficient dispersion, ensure good test.

6) Instrument Software

Original Unconstrained free fitting patent technology collect scattering data during the measurement process, make particle analysis not be restricted by any functions, truly reflect particles size distribution, The instrument provide high precision data with 10Khz data acquisition time.

Adopt unconstrained free fitting patent technology collect scattering data during the measurement process, make particle analysis not be restricted by any functions, truly reflect particles distribution.

4. Software Function:

1, Analysis Mode

Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh number classification etc. meet different demands of particle size statistic in different industries.

2, Statistic Method

Volume Distribution, Quantity Distribution

3,Statistic Comparison

Statistic Several Testing Results to compare and analyze

Get difference by compare test result of different batches of samples, samples before and after processing, and different time.

Have great practical significance to industrial raw materials quality control

4,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.

5,Test Report

Word, Excel,Photo(Bmp), Text etc.

6,Multiple language Support

Chinese&English (Others are available)

7,Intelligent Operation Mode

Automatically control water inflow, dispersion,test and analysis.

Better Repeatability after remove human-factor

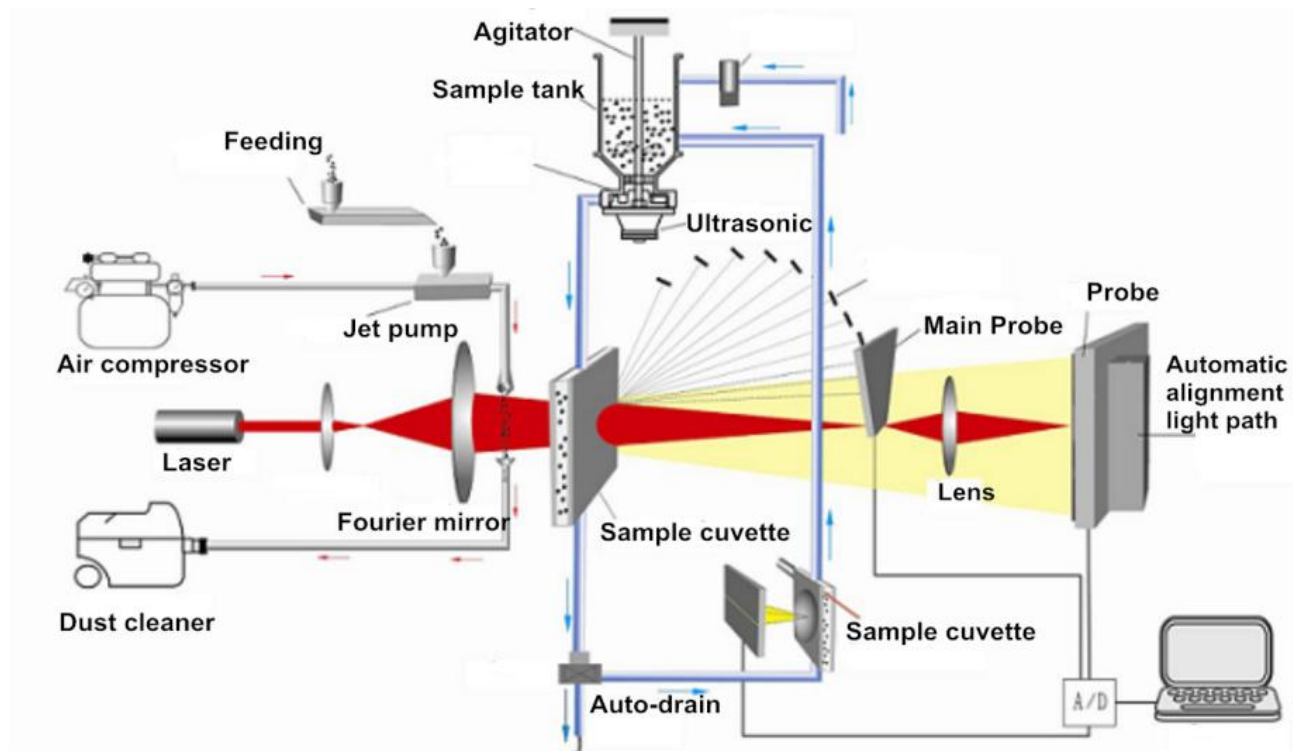


Figure-Winner2308 scheme

5.Application:

Winner2308 widely used in cement, ceramics, medicines, lotions, paints, dyes, pigments, fillers, chemicals, catalysts, drilling mud, abrasives, lubricants, coal, sediment, dust, cells, bacteria, food additives, pesticides, explosives, graphite, photographic materials, fuel, ink, metal and non-metal powder, calcium carbonate, kaolin, coal slurry and other powdered materials.

6. Standard Accessories list

NO.	Items	Quantity	Unit	Remark
1	Winner2308 laser particle size analyzer	1	Set	
2	Analysis software	1	Set	
3	Software USB key	1	PCS	
4	Power cable	1	PCS	
5	Communication cable	1	PCS	
6	Sample cuvette	1	PCS	
7	Screwdriver	2	PCS	
8	Wrench	3	PCS	
9	Draining water pipeline	1	PCS	
10	Standard sample pipeline	1	Set	
11	Clean mirror paper	3	PCS	
12	Clean mirror card	1	PCS	
13	Sample cuvette brush	2	PCS	
14	Spoon	2	PCS	
15	2A fuse	5	PCS	
16	Quality certificate	1	PCS	
17	Warranty Card	1	PCS	
18	Manual	1	PCS	

7.Adopt Patents Technology:

- Optical bench design is protected by patent No.- ZL 2014 2 0378380.8,
- Three dimensional-optical bench alignment system is protected by patent No.- ZL 2013 2 0835882.4.
- MIE scattering principle application patent No.- ZL 2013 2 0812021.4.
- Dry particle size analyzer full sealed sample cuvette application is protected by patent No.- ZL.2011 2 0267646.8.
- Dual laser beam orthogonal application is protected by patent No.-ZL 2007 2 0025702.0
- Powder dispersion pump design application is protected by patent No.-ZL 2007 2 0018648.7
- Wet circulation installation is protected by patent No.-ZL2010 2 0593526.2