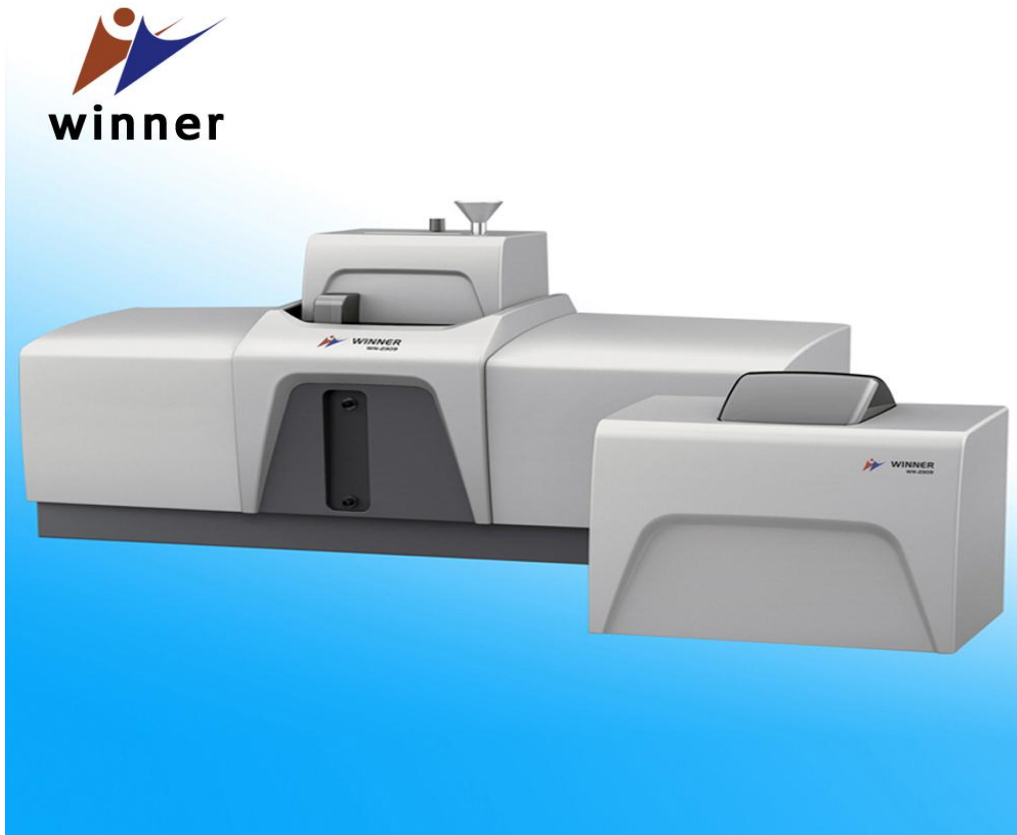


Winner-2309A/B Intelligent Wet and Dry Laser Particle Size Analyzer



Overview:

Winner2309 is intelligent full automatic laser particle size analyzer, adopt MIE scattering principle, which is integrated model of wet and dry dispersion system. It's the prior choice for industrial production quality control departments and research institutions which have more types of particles and wide particle size distribution.

1. Main Specifications: (sample cuvette is available)

Model Name	Winner2309A	Winner2309B
Standard	ISO 13320-1:1999; GB/T19077.1-2308; Q/0100JWN001-2013	
Principle	MIE scattering Principle	
Size Range	Dry:0.1 μ m-2000 μ m Wet:0.01 μ m-2000 μ m	Dry:0.1 μ m-1200 μ m Wet:0.01 μ m-1200 μ m
Channels Number	Dry:100 Wet:127	Dry:80 Wet:97
Accuracy	<1% (Deviation of D50 on national standard sample)	
Repeatability	<1% (Deviation of D50 on national standard sample)	
Light source	He-Ne laser P>3.0 MW Auxiliary laser:semiconductor P>2.0MW	
Operation Mode	Full automatic	
Optical alignment system	Automatic	
Test Speed	Wet: <2 Min per time, Dry : <1min per time	
Outer dimension	L92cm×W44cm×H50cm	
Net Weight	70Kg	

2. Main Features:

1)Wet and dry Integrated Design

This instrument integrated wet and dry dispersion test in one, successfully resolved the problem of dry and wet technology integration, realize one key to switch.

2) Intelligent full automatic operation system and manual operation, freely choose. Choose automatic mode, very easy and simple to learn,support one key operation.

3) Optical Path System patented technology

Converging light Fourier transform path system, enables scattering light be not restricted to the lens aperture limit, and the dual laser orthogonal light use auxiliary semiconductor laser to expand the measurement range by enlarge scattering angle from 45 degrees to 135 degrees.

4) Automatic Optical path alignment System,

which is composed of precise four phase hybrid stepper motor, Its inching precision is reach to micron level,make optimum optical paths to ensure accurate and stable test.

5) Full built-in Sample dispersion system.

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.

6) Instrument Software

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

3. 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.

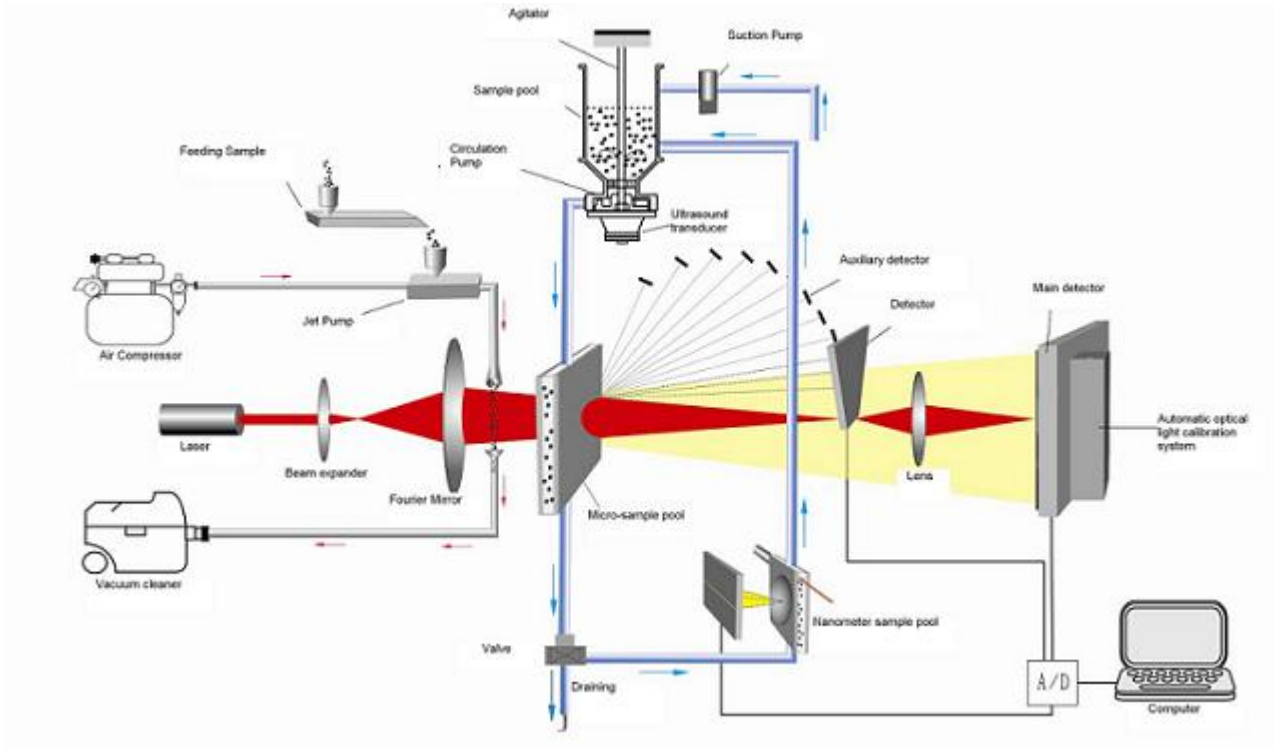
6, Multi-language Support

Chinese&English (Others are available)

7, Intelligent Operation Mode

Automatically control water inflow, dispersion, test and analysis.

Better Repeatability after remove human-factor



4. Application: Solid powder, suspension and emulsion.

5. Standard Accessories list:

NO.	Items	Quantity	Unit	Remark
1	Winner2309 laser particle size analyzer	1	Set	
2	Software	1	Set	
3	Software key	1	PCS	
4	Standard sample	1	Bottle	
5	Power cable	1	PCS	
6	Communication cable	1	PCS	
7	Sample cuvette	1	PCS	
8	Screwdriver	2	PCS	
9	Wrench	3	PCS	
10	Draining water pipeline	1	PCS	
11	Standard sample pipeline	1	Set	
12	Clean mirror paper	3	PCS	
13	Clean mirror card	1	PCS	
14	Sample cuvette brush	2	PCS	
15	Spoon	2	PCS	
16	2A fuse	5	PCS	
17	Quality certificate	1	PCS	
18	Warranty Card	1	PCS	
19	Manual	1	PCS	

6. Patent Technology:

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