Winner-2308A/B 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 Winner2308B						
	ISO13320-1:1999						
Standard	GB/119077.1-2308 O/0100 IW/N001 2012						
Drinciplo							
Гппсіріе							
Measuring Range	Dry:0.1-2000 micron	Dry: 0.1-1200 micron					
	Wet:0.01-2000 micron	Wet:0.01-1200 micron					
Channels Number	Dry:100 pcs Wet:127 pcs	Dry:97pcs Wet:120 pcs					
Accuracy error	<1% (Deviation of D50 on national standard sample)						
Repeatability error	<1% (Deviation of D50 on national standard sample)						
Light course	Dual lens, He-Ne laser P>3.0 MW (λ= 632.8nm)						
Light source	Auxiliary semiconductor laser (λ = 532 nm) P>2.0MW						
Operation Mode	Intelligent						
Optical alignment	Automatic						
Data acquisition rate	2KHZ						
Test Speed per time	Wet: <2 Min	Dry : <1min					
Outer dimension	L92cm×W44cm×H50cm						
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 0.01-2000um 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 themeasurement 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.

Adoptunconstrained free fitting patenttechnology collect scattering data during the measur ement process, make particle analysis not be restricted by any functions, truly reflect partic les distribution.

4. Software Function:

1.Control Interface



2. Analysis Mode

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

3. Statistic Method Volume Distribution, Quantity Distribution

4. 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

5. 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.

Jinan W.	nner				Laser Pai	rticle Si;	zer Testii Wini	ng Report 1er2308A
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UltraSonic Dispersed	: Time:120s Medium:eu			Meas	suring Co. :济雨 suring Man:02	阿徽纳		
Dispersant	.:		Measuring Time:2016/2/19 9:54:36					
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1.209	0.095	0.095	15.726	2.663	36.960	204.513	0.000	100.000
1.462	0.222	0.242	19.017	2.904	42.694	247.313	0.000	100.000
1.608	0.306	0.770	20.913	2.919	45 613	271.963	0.000	100.000
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Test report interpretation:

D10=X, means≤X particle size's particle volume content occupy 10% of all the particles.

D50=Y, means ≤Y particle size's particle volume content occupy 50% of all the particles.

D90=Z, means ≤Z particle size's particle volume content occupy 90% of all the particles.

DAV: Average particle size of particles group

S/V: Specific surface area, surface to volume ratio/ Surface area per unit volume

D[3,2] Weighted average surface area

D[4,3] Volume weighted average

Particle Size Analysis Chart illustration:

The transverse is the particle size value, and the value is logarithmic distribution.

The left column is the volume of the cumulative percentage, the corresponding curve is upward trend.

The right column is the percentage of the volume of a certain interval, corresponding to the histogram or undulating curve.

The data list is corresponding to the test result of analysis chart.

6. Test Report Word, Excel,Photo(Bmp), Text etc.

7. Multiple language Support Chinese&English (Others are available)

8. Intelligent Operation Mode

Automatically control water inflow, dispersion,test and analysis. Better Repeatability after remove human-factor



Figure-Winner2308 Internal Structure

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.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