







Quotation of Automatic- Laser Particle Size Analyzer(Wet-type)

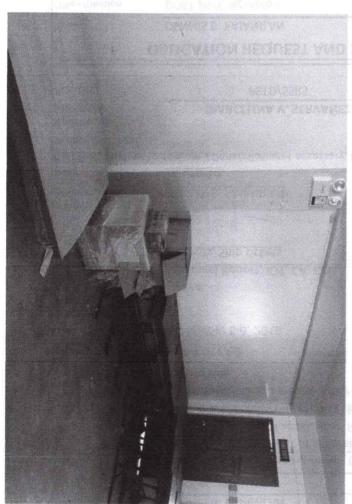
Name	Model	Quantity	Measuring partical size	Total Price (USD)	
Automatic- Laser partical size analyzer (wet type)	2000ZDE	1set	0.1-300um	11,785	

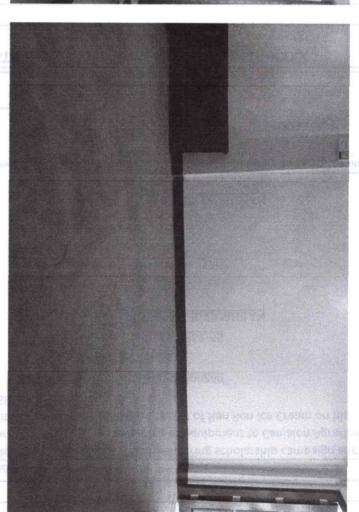
P/S, the above price included the following accessories:

- 1. Power cable 1 pcs,
- 2. communication wire 2 pcs,
- 3.screwdriver 2 pcs, wrench 4 pcs,
- 4.cleaning paper1 pcs,
- 5. Silicone tube 1 pcs,
- 6.medical silicone tube 1 pcs,
- 7. nozzle 1 pcs, sample box 1 pcs,
- 8. 2A insurance tube 5 pcs,
- 9. sample spoon 2 pcs,
- 10. brush 2 pcs,
- 11. tool box 1 pcs,
- 12. filter tool 1 set,
- 13. standard sample 1bottle,
- 14. USB adapter cable 1 pcs

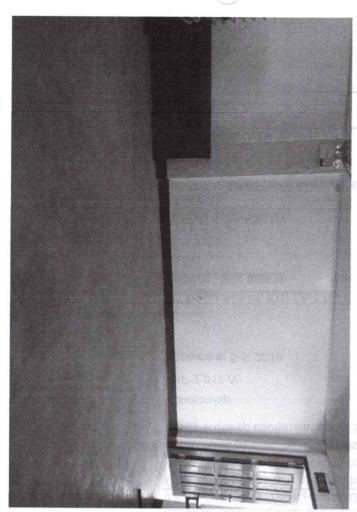


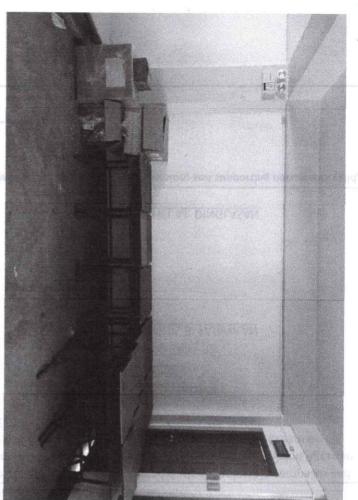
















Introduction:

2000E laser diffraction particle size analyzer is an entry level and high efficient-cost with stable good performance model, working with principle of MIE Scattering to precisely determine the particle size distribution from 0.1 to 300 micrometer. It's classical model, widely used in universities research and company lab research

Main Specification:

Model Name		2000E					
Standard .		ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009					
Principle		MIE scattering principle					
Measuring Range		0.1-300µm					
Channels Number		39 PCS					
Accuracy error		<1% (National Standard Sample D50)					
Repeatability error		<1% (National Standard Sample D50)					
Light source		High performance He-Ne Laser (λ= 632.8nm, P>2MVV) Lifetime>25000hour					
	Ultrasonic	Frequency:40KHz Power:50W, Time: ≥1S					
Dispersion	Stir	Revolutions Speed: 0-300RPM (Adjustable)					
Method	Circulate	Rated Flow:8L/min Rated Power:10W					
	Sample Pool	Volume:350mL					
	Micro- Sample Pool	Volume: 10mL (Available)					
Operation N	lode	Full automatic and manual control, freely choose					
Output parameter		D10,D50,D90,D100,S/V referent parameters					
Optical Calibration System		Full automatic					
Test Speed		<2mins per time					
Outer dimension		L88cm×W39cm×H46cm					
Net Weight		41Kg					
Warranty		2 years					

2, Main Features:

1) Advanced design of light path:

A patented technique of Fourier transform of converging light released the scattered light at largescattering-angles from the restriction of the aperture of the Fourier lens. The focal length is reduced to enhance the resolution of the instrument.

2, Built-in dispersion units:





We carefully aligned the stirring set-up, the ultrasonic dispersing unit and the sample circulation pipes, and fixed them inside the instrument. Such a built-in design effectively prevents the inhomogeneous dispersion and sedimentation of big particles, which can be observed in the designs that these dispersing units are separated from the instruments, where the sample circulation pipes are therefore too long. The sample will be sufficiently dispersed.

3,Unconstrained fitting techniques:

The particle analysis software uses a unique unconstrained data fitting technique that we developed to obtain data of unknown size distribution, this is particularly important for researchers.

4, Micro sample chamber (optional):

The capacity of the sample chamber is as small as only 10ml. This helps with measuring expensive/precious samples, or samples difficult to be dispersed within medium.

5, Modern measurement control:

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

6, User-friendly Operation:

Manual mode and the automatic mode, freely choose, to measure according to the sample features. In some conditions (e.g. the sample have unknown features or there are special requirements for the measurements), users can make a test measurement in the manual mode first, and after having an idea of the sample features and the measurement conditions, measure the samples in the automatic mode.

7, Fully automatic light path alignment:

A precise four phase hybrid stepping motor automatically aligns the optical path and can adjust it at any moment. This releases users from manual adjusting the optical path and improved accuracy and stability of the measurement results.

8. Quick measurements:

set " automatic" mode, all operation procedures are performed automatically, automatic water supply, automatic ultrasonic sample, stirring, circulation, background testing, sample testing, analysis, draining and cleaning, which significantly reduces the time for measurements, the full process only take 2 minutes.

9.Data analysis:

Errors in the data are rejected and the measurement results are automatically processed. Manual data processing is not necessary and the output is more standard.

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

7, Intelligent Operation Mode

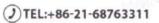
Automatically control water inflow, dispersion, test and analysis. Better Repeatability after remove human-factor

4. Laser Particle Size Analyzer Application Field:

- Non-metallic powders such as calcium carbonate, talcum powder, kaolin, zirconium silicate, wollastonite, graphite, silica powder, tourmaline, mica, barite, plaster, bentonite, diamond, quartz, diatomite, feldspar, calamite, clay, garnet, vermiculite, Titanium white power, etc.
- 2. Metallic powder such as aluminum powder, iron powder, magnesium powder, molybdenum powder, copper powder, zinc powder, other rare metal power and varied alloy powder, etc.
- 3. Pharmaceutical, agricultural pesticide, grinding particle, foodstuff, scientific research, teaching, cement, ceramic, glass, chemical industry, military industry, soil, toner, pigment, oil exploration, geological analysis, river silt and electronic particle, etc.

5. 2000E Laser Particle Size Analyzer Patents Technology:

- Optical bench design is protected by patent No.- ZL 2014 2 0378380.8,
- MIE scattering principle application patent is protected by patent No.- ZL 20132 0812021.4.
- Wet circulation installation is protected by patent No.-ZL2010 2 0593526.2.





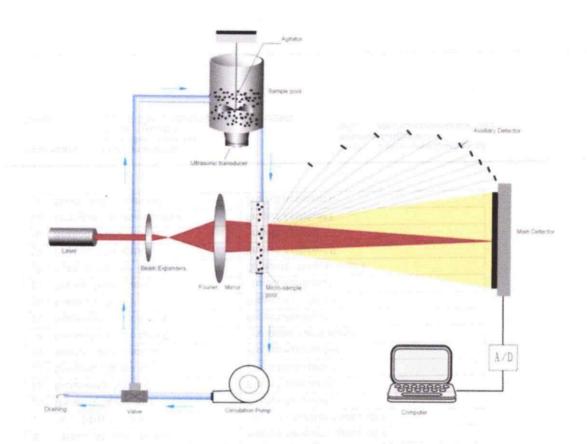




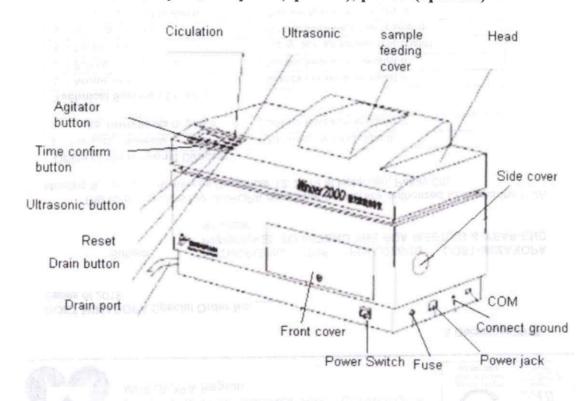




Instrument scheme:



2000ZDE Partical size analyzer, computer(optional), printer(optional)



Light path alignment process



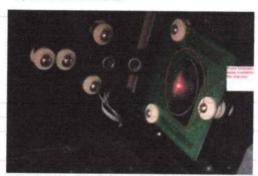
1,add liquid/sample dispersion media,ultrasonic dispersion, agitator, circulation running



2, remove front cover



3,micro-adjust 3 screws of pcb to make laser beam go through the probe pcb hole











Test Range: 0. 1-300 Hm

Printing Time: 2017/7/21 16:23:05

Sample Information

Sample Name 1882 [Average] Refractive Index: 1.64-1*0.100 Delivery Co. :

Delivery Date: 2017-7-21

Testing Information

UltraSonic Time 60: Dispersed Phase Dispersant

Beasuring Co. 济南徽纳

Heasuring Man Z

Analyse Result (Analyse-Mode: Independent Statistics-Mode: By Volume)

B10≃1 407 Hm

Dav=18 435 Ha

D[3,2]=4.189 Ha

050=12 622 Ha D90=43 824 Ha S/V=14324 150 cm'2/cm'3

B[4,3]=18 435 Ma Fit Error: 0.003

Optics Concentration: 10.45

Custom Analyse Result 025≈3.486 µn

D97=58.969 H n G45 Ha 90 913% D98=62, 912 Hm (50 Ha: 93, 602%

(5 Hn: 30, 144% (53 Ha: 95, 215%

(20 Hn: 62, 335% (75 Hn: 99. 291%

90 Na 99 814%

(105 Ha. 99 9669

(150 Hm. 100, 000%

Cumulates;

10 90 9 80 70 7 60 6 50 5 40 4 30 3 20 2 10 1 0 0 0.1 100 1000 Particle Size (#m)

Size(Ha	Volume's	Cumulates	Size(Mm)	Volumex	CumulateN	Size(Mm)	Volumek	Cumulate%
0.121	0.000	0.000	1.745	3.365	13.790	The second second second	5.659	69.060
0.146	0.000	0.000	2.112	3 201	16.991		6.793	T5. 852
0.177	0.000	0.000	2.555	3.312	20 303		7.842	83. 694
0.214	0.000	0.000	3 092	2.889	23 192		6.998	90.692
0.259	0.000	0.000	3.741	2 975	26.167		5.035	95. 728
0.314	0.000	0.000		2.556	Z51255		2.874	98.602
0.380	0.000	0.000		2 852	31 576		0.972	99. 574
0.460	0.224	0.224		2.997			0.361	99. 936
0.558	0.451	0.675		3.661	38 234	THE STATE OF	0.064	100.000
0.673	0.869	1.543		4 670	42 904		0.000	100.000
0.814	1.280	2.824		5.082			0.000	100 000
0.985	1.946	4 769		5.640			0.000	100.000
1.192	2:599	7.368	Actual party for party	4 971			0.000	100.000
1,442	3.058			4.804	63, 401		0.000	100 000

Contact us

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