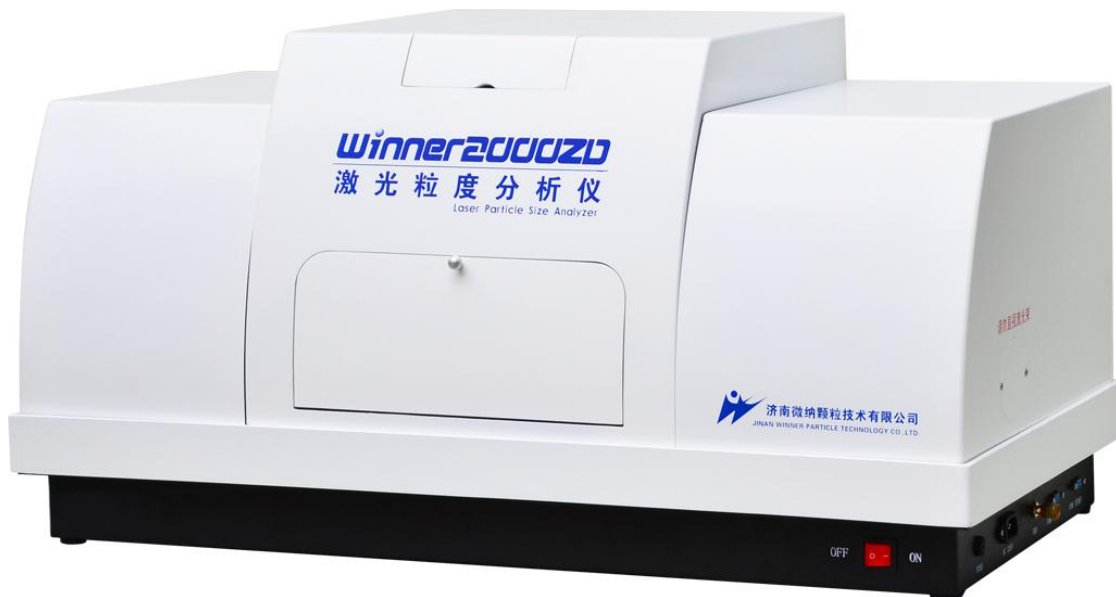


Introduction Of Auto Wet Dispersion Laser Particle Size Analyzer

Model No.: Winner 2000ZD



Winner2000ZD intelligent laser particle size analyzer, perform auto test, auto alignment, auto water supply, auto drainage, auto bubble removing, auto ultrasonic dispersion, auto cleaning etc., really realize one-key operation. It adopt full built-in sampling system, effectively prevents large particles sedimentation problems in the circulation pipeline, ensure good accuracy. It adopts comprehensive Laser diffraction particle size measurement principle with highly sensitive ring photoelectric detector improving the test accuracy greatly, Original designed unconstrained free fitting software technology, a true reflection of the particle size distribution, to ensure truth and accuracy of the test results. Therefore especially suits the laboratories of enterprises, colleges and universities and research institutes to use.

1. Main Specifications:

| | |
|------------|--|
| Model Name | Winner2000ZD / Winner2000ZDE |
| Standard | ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009 |



| | | |
|---------------------|-------------------|--|
| Principle | | MIE scattering principle |
| Measuring Range | | 0.1-40 μ m/0.6-120 μ m/1-300 μ m |
| Channels Number | | 76*3 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>2MW) Lifetime>25000hour |
| Dispersion Method | Ultrasonic | Frequency:40KHz Power:35W, Time: \geq 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) |
| Operation Mode | | Full automatic and manual control, freely choose |
| Output parameter | | D10,D50,D90,D100,S/V referent parameters |
| Optical System | Calibration | Full automatic |
| Test Speed | | <2mins for each time |
| Volume | | L88cm \times W39cm \times H46cm |
| Net Weight | | 41Kg |

2. Main Features:

1,Advanced design of light path:

A patented technique of Fourier transform of converging light released the scattered light at large-scattering-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:

1.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. Winner2000ZD Laser Particle Size Analyzer 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 is protected by patent No.- ZL 2013 2 0812021.4.
- Wet circulation installation is protected by patent No.-ZL2010 2 0593526.2.

Winner Particle Instrument Stock Co., Ltd. Website: <https://www.winner-psa.com/>

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