



## Winner2000E Wet Laser Particle Size Analyzer



### Overview:

Winner2000 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 enables you understand materials well, such as painting, dyes, minerals power, Photosensitive material, Medicine and Metal oxide etc. Our Reliable data enables scientists, researchers and engineers to evolve formulations and processes with confidence. Our products guide research and product development, manage and control manufacturing quality, and optimize output, It's our classical model, widely used in universities research and company lab research.



## 1,Main Specification:

Model Name		Winner2000E
Standard		ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009
Principle		MIE scattering principle
Measuring Range		0.1-300 $\mu$ m
Channels Number		96 PCS
Accuracy		<1% (National Standard Sample D50 )
Repeatability		<1% (National Standard Sample D50 )
Light source		High performance He-Ne Laser ( $\lambda$ = 632.8nm, P>2MW) Lifetime>25000hour
Dispersion Method	Ultrasonic	Frequency:40KHz Power:35W, Time: $\geq$ 1S
	Stir	Revolutions Speed: 0-300RPM (Adjustable)
	Circulate	Rated Flow:8L/min Rated Power:10W
	Sample Pool	Volume:350mL
	Micro-Sample Pool	Volume: 10mL ( Available)
Operation Mode		Digital display control
Output parameter		D10,D50,D90,D100,S/V referent parameters
Optical System	Calibration	Manual
Test Speed		<2mins per time
Outer dimension		L66*W32*H40cm
Net Weight		32Kg
Warranty		2 years

## 2,Main Features:

1)Working principle: Mie Scattering Theory

2)High efficient-cost model, semi automatic button control.

3) Wet Sample Preparation and Dispersion system

Full built in dispersion system, including manual water supply, Key operation control circulation, ultrasonic dispersion,draining water and cleaning pipe, make sure that sample can be dispersed sufficiently, prevent large particle sediment in the pipe, offer stable and reliable test results.



#### 4)Stable optical path system

Winner Patented Technology, Unique designed converging light Fourier transform light path, efficiently improve resolution ratio of sub-micron particles.

#### 5)High sensitive Detectors:

Main& auxiliary detectors are fan-shaped, It can receive all scattered light signals from sub-micron to millimeter accurately, guarantee the effective capture of the scattered signal,ensure the good accuracy and repeatability.

#### 6) Self-developed software System: Unconstrained free fitting

patent technology, make particle analysis not restricted by any function, truly reflect particles distribution, ensure the good accuracy. Friendly human interface, easy and simple to learn.

### **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:**

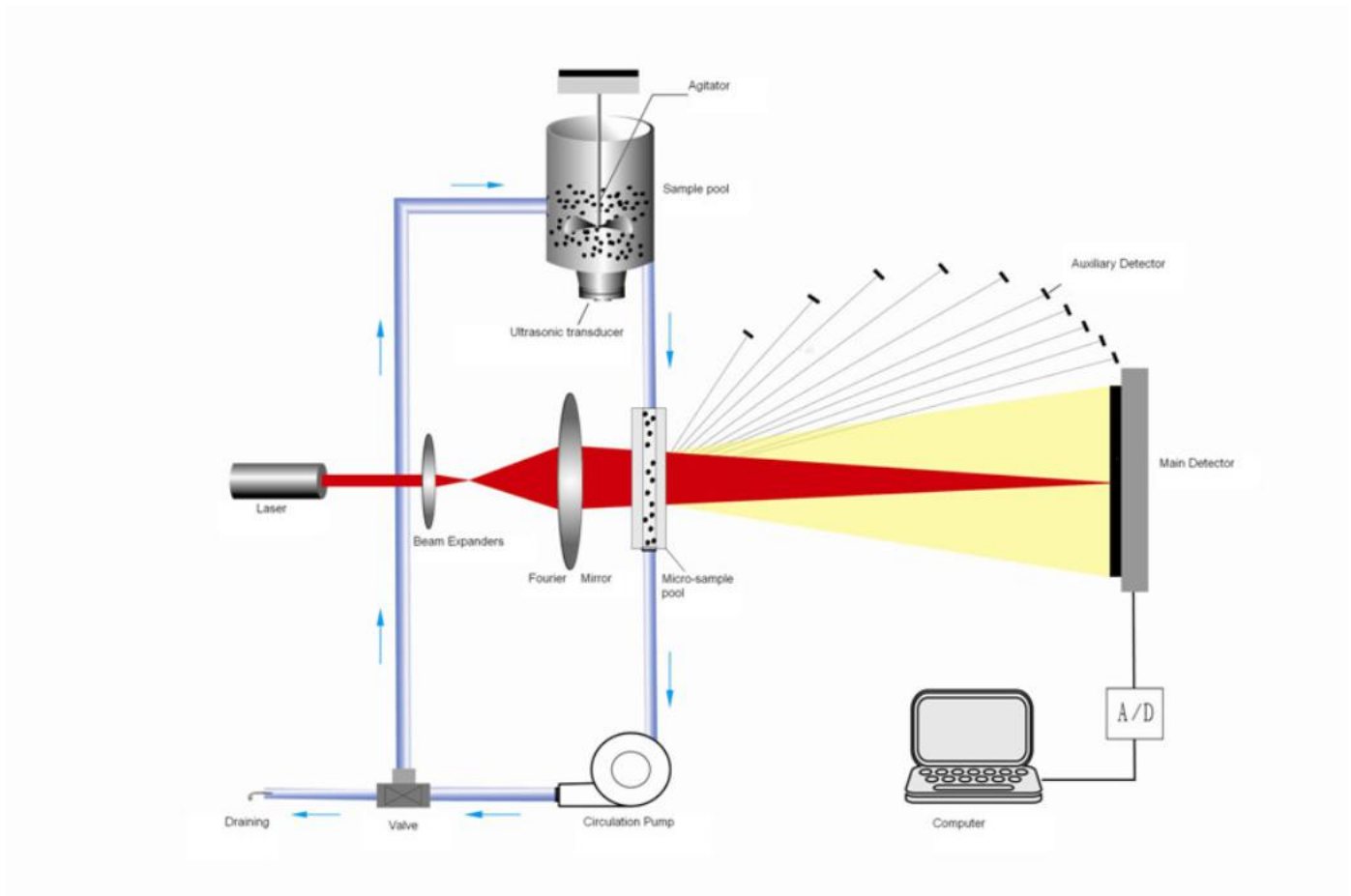
1. Non-metallic powders such as calcium carbonate, talcum powder, kaolin, zirconium silicate, wollastonite, graphite, silica powder, tourmaline, mica, barite, plaster, bentonite, diamond, quartz, diatomite, feldspar, calamite, clay, garnet, vermiculite, Titanium white power, etc.
2. Metallic powder such as aluminum powder, iron powder, magnesium powder, molybdenum powder, copper powder, zinc powder, other rare metal powder 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. Winner2000E 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 2013 2 0812021.4.
- Wet circulation installation is protected by patent No.-ZL2010 2 0593526.2.



## Instrument scheme:



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Winner Laser Particle Size Analyzer-Since 1985