



# WET-2000E

Wet Laser Particle Size Analyzer

**Gold APP Instruments China**

**Lead You to Particle World Better**



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## INTRODUCTION

WET-2000E laser particle size analyzer adopts wet dispersion principle, it is most economical and popular for production QC. Laser diffraction particle size analyzers are used to measure the sizes of particles in a material. Particle size is calculated by measuring the angle of light scattered by the particles as they pass through a laser beam. Laser diffraction analyzers are used in many applications, including manufacturing, quality control and product development.

## FEATURES

- By Mie scattering theory
- Fully built-in integrated dispersion system contains ultrasonic stirring, ultrasonic dispersion and cycling system.
- Unique unconstrained free fitting technology, make particle analysis not restricted by any functions, truly reflect particles distribution, ensure the good accuracy.
- Converging light Fourier transform light path, efficiently improve resolution ratio of sub-micron particles.
- Main & auxiliary detectors are log-shaped, guarantee the effective capture of the scattered signal.

### Software Function:

#### 1. Analysis Modes

Free distribution, R-R distribution, logarithm normal distribution, mesh number classification etc.

#### 2. Statistic Method

Volume distribution and quantity distribution

#### 3. Statistic Comparison

Several testing results of samples;  
Different batches of samples testing result;  
Samples before and after processing;  
Test result of samples from different time.

#### 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.

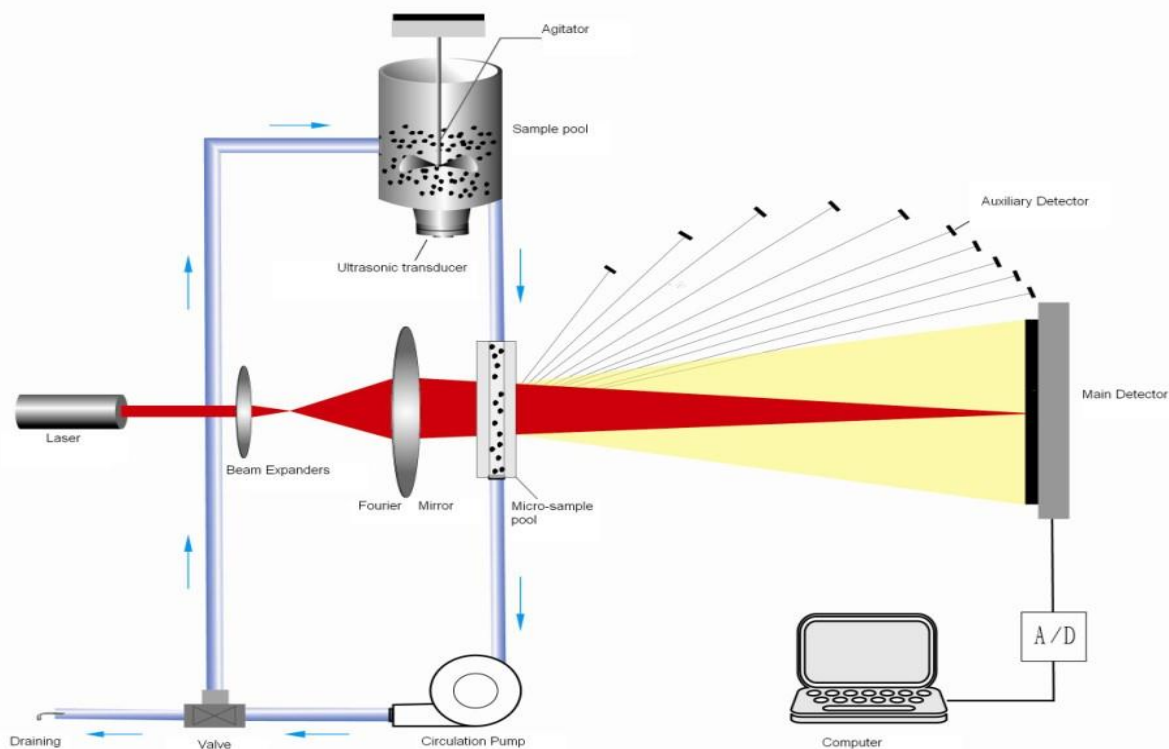
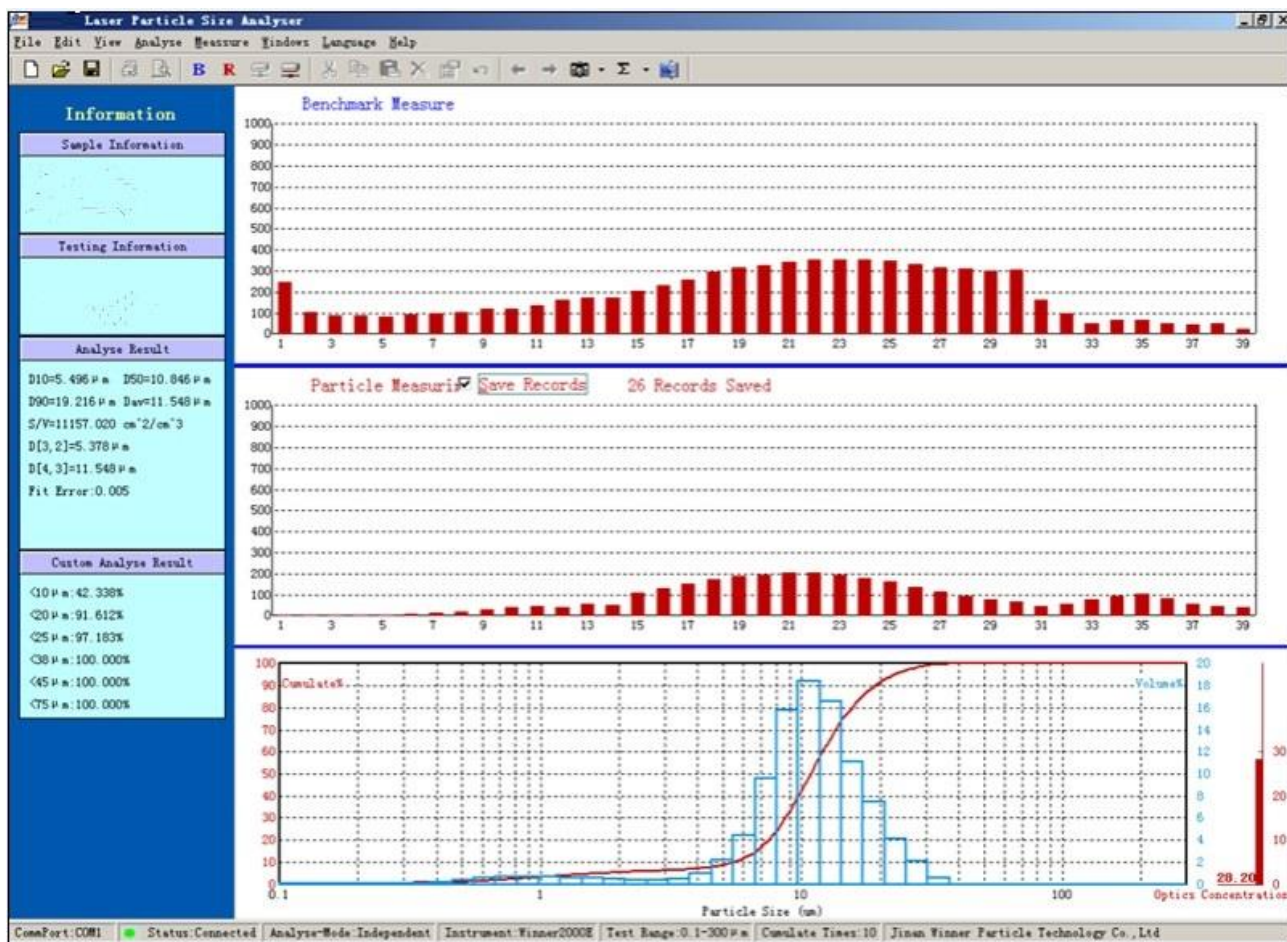
#### 6. Multi-language Support

Chinese & English (others are available by OEM)



## 7. Intelligent Operation Mode

Automatically control water inflow, dispersion, and analysis. Easy-to-use software and fully automated operation to minimize training requirements and release operator time



Analyzer Working Schematic



## SPECIFICATIONS

Model Name		WET-2000E
Standards		ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009
Measuring Range		0.1µm-300µm
Channels Number		39
Accuracy		<1% (national standard sample D50)
Repeatability		<1% (national standard sample D50)
Light Source		High performance semiconductor laser ( $\lambda = 632.8\text{nm}$ , $P > 2\text{MW}$ , life >25000hour)
Dispersion Method	Ultrasonic	Frequency:40KHz, power:35W, time: $\geq 1\text{S}$
	Stir	Revolutions speed: 0-300RPM (adjustable)
	Circulate	Flow rate: 8L/min, Power Rate:10W
	Sample Pool	Volume: 350mL
	Micro-sample Pool	Volume: 10mL (optional)
Operation Modes		Embedded display + external computer
Optical Calibration System		Manual
Test Speed		<2mins for each time
Dimension		L66cm×W32cm×H40cm, 25Kgs

### Reserved Patents:

- 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.





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*Our policy of continuous development may cause the information and specifications contained herein to change without notice or liability.*



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