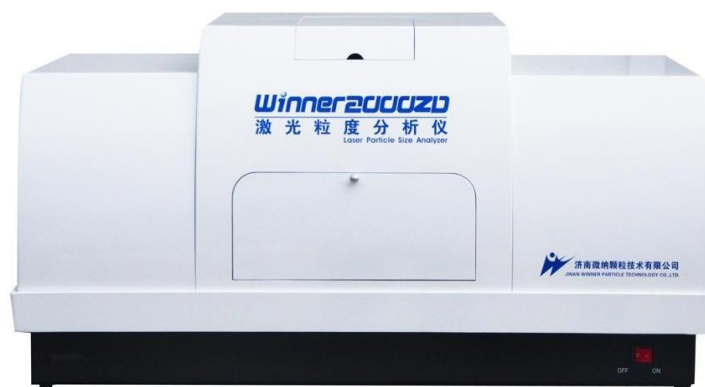
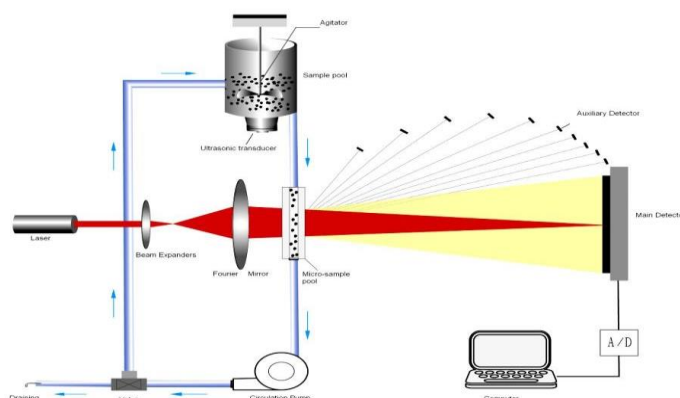


Winner 2000ZDE Intelligent Laser Particle Size Analyzer



Winner 2000ZDE intelligent laser particle size analyzer is designed with one-key operation to perform automatic measurement cycle, including background and sample testing, alignment, water supply, bubble removal, ultrasonic sample dispersion, stirring, circulation, draining and cleaning which reduce measurement time significantly. It adopts fully built-in sampling system to prevent large particle sedimentation problems in the circulation line effectively in order to maintain measurement accuracy. The comprehensive laser diffraction particle size measurement principle, supported by a highly sensitive ring photoelectric detector, a true reflection of the particle size distribution, and unconstrained free fitting software technology improve test accuracy significantly. It is suitable for various applications in industries, universities and research institutions.

Principle



Patents

- 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 is protected by patent No.- ZL 2013 2 0812021.4.
- Wet circulation installation is protected by patent No.-ZL2010 2 0593526.2.



Main Specification

Standard	ISO13320-1:1999, GB/T19077.1-2008, Q/JWN001-2009	
Principle	MIE scattering principle	
Measuring range	0.1 μm - 300 μm	
Channel number	39 PCS	
Accuracy error	< 1 % (CRM D50)	
Repeatability error	< 1 % (CRM D50)	
Light source	High Performance Semiconductor Laser ($\lambda = 635\text{nm}$, $P > 2\text{MW}$), Lifetime > 25000 hours	
Dispersion method	Ultrasonic	Frequency: 40 KHz Power: 50W, Time: ≥ 1 s
	Stir	Revolution Speed: 0 – 3000 RPM (adjustable)
	Circulate	Rated Flow: 8 L/min Rated Power: 10W
	Sample Pool	Volume: 350 mL
	Micro Sample Pool	Volume: 10 mL (available)
Operation mode	Fully automatic and manual control (freely chosen)	
Output parameter	D10, D50, D90, D100, S/V referent parameters	
Optical calibration system	Fully automatic	
Test speed	< 2 mins for each measurement	
Software function	Analysis mode	Free Distribution, R-R Distribution, Logarithm Normal Distribution, Mesh Number Classification
	Statistic method	Volume Distribution, Quantity Distribution
	Statistic comparison	Test results of several samples, Test results of samples from different batches, Samples from pre and post processing Test results of samples in different time
	Test report	Word, Excel, Photo (Bmp), Text etc
	Operation mode	Automatic control of water flow, dispersion, test and analysis Human-error free for better repeatability
Dimension	L 88 cm \times W 39 cm \times H 46 cm	
Net weight	41 Kg	
Optional	10 ml Micro sample chamber	

Applications

- Non-metallic powders such as calcium carbonate, talcum, kaolin, silicate, graphite, silica, titanium powder, soils, toner, pigments, cements, ceramics, glasses, etc.
- Metallic powders: aluminium powder, iron powder, magnesium powder, copper powder, zinc powder, other rare metal powder and varied alloy powder, etc.
- Pharmaceuticals, pesticides, foods, scientific researches, teaching laboratories, chemical industries, military, oil exploration, geology, electronics, etc.

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Jinan Winner Particle Instrument