

Particle Size Analyzer



Model BT-9300ST

BT-9300ST is an intelligent dual lens particle size analyzer which adopts integrated design, and all of the operations can be completed automatically under the control of the computer. It has particular functions included auto test, auto alignment, auto water supply, auto drainage, auto bubble removing, auto cleaning, etc. It adopts high performance imported semiconductor laser and life time is greater than 25000 hours; adopts anti-dry ultrasonic dispersing technology, so opening ultrasonic will not damage the instrument when circulating pool without water. The instrument has outstanding characteristics including accuracy and good reliability, good repeatability, easy operating, fast test speed, etc. It is a new generation of particle size analyzer that integrates the technologies of laser, computer and photoelectron, and especially suits the laboratories of enterprises, universities and research institutes to use.

Specification

Measuring Range	0.1-1000 μ m
Accuracy Error	<1%(standard sample D50)
Focus Mode	Automatic Alignment
Circulating Pump and Flowrate	Centrifugal pump, 500-2500ml/min
Laser and Life Time	Semiconductor Laser, 25000 hours
Repeatability Error	<1%(standard sample D50)
Resolution	Single Peak, Double-peak and Multi-peak
Method of Water Supply	Auto Suction
Ultrasonic Disperser	Anti-dry, 50W, 38KHz
Detector and Number	Forward and Backward, 86 PCS

Testing parameter	Material
Particle size distribution	Suspension, emulsion, dry powder
General	Bettersize 9300ST
Theory	Laser diffraction
Analysis theory	Mie and Fraunhofer
Testing speed	3kHz
Typical measurement time	≤10 second
Size	
Size range	0.1 - 1000um
Number of size classes	More than 100 customized grades
Accuracy	≤1% (GBRM D50)
Repeatability	≤1% (GBRM D50)
Resolution ratio	Single peak, double peak, multi-peak
Optics	
Red light	Max. 3mW, Semiconductor optical fiber laser, 635nm
Lens arrangement	Dual lenses on the right and left of sample cell
Lens design	F-Theta Lenses
Effective focal length	223mm
Detector	
Arrangement	Log-spaced array
Quantity	86 pieces (forward, sideways, backward)
Light path adjustment	Intelligent automatic alignment
Sample dispersion system	Bettersizer ST
Dispersion type	Wet
Dispersion system	Ultrasound 50W, 38 KHz Dry burning-resistant
Water circulation	Centrifugal pump, 500 -2500 ml/min, auto water
Water capacity	600 ml
Dispersion system available	None
Air flowrate	None
Air compressor	None
Vacuum cleaner	None
Air filter	None
Software	
21 CFR Part 11	Enable
SOP Designer	Enable
Report	More than 14 formats report
Auto test	Enable
Data export	EXCEL, PDF, WORD, JPG and etc.
System compliance	
Laser class	Class I laser product
System	
Supply voltage	220VAC
Dimension	660mm x420mm x 320mm (L x W x H)
Weight	38kg
Computer specification	
Computer interface	At least a USB2.0 port required
Operation system	Windows XP, Windows 7,8 or 10
Hardware specification	Intel Core I5, 4GB RAM, 250GB HD