Bettersizer SD Specification

Testing parameter	Material
Particle size distribution	Suspension, emulsion, dry powder
General	Bettersizer SD
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	Wet ≤1% (GBRM D50) Dry ≤3%(GBRM D50)
Repeatability	Wet ≤1% (GBRM D50) Dry ≤3%(GBRM D50)
Resolution ratio	Single peak, double peak, multi-peak
Optics	
Red light	Max. 3mW, Semiconductor optical fiber laser, 635nm
Lens arrangement	Single lens
Lens design	F-Theta Lenses
Effective focal length	223mm
Detector	
Arrangement	Log-spaced array
Quantity	84 pieces (forward, sideway)
Light path adjustment	Intelligent automatic alignment
Sample dispersion system	
Dispersion type	Wet & Dry
Dispersion system	Ultrasound 50W, 38 KHz Dry burning-resistant protection system
Water circulation	Centrifugal pump, 500 -2500 ml/min, auto water intake and rinsing
Water capacity	600 ml
Dispersion system available	Solvent compatible system
Air flowrate	400-6000L/min
Air compressor	Gas container ≥ 60L Pressure ≤ 8bar
Vacuum cleaner	Wet dust collector or bag filter

Air filter	3 um, 0.3 um, 0.01 um
Software	
21 CFR Part 11	Enable
SOP Designer	Enable
Report	More then 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	720mm x 300mm x 280mm (L x W x H)
Weight	26kg
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