

MPL6100-A Wet Method Intelligent Automatic Laser Particle Size Analyzer



Specifications and models	MPL6100-A
Implementation standards	ISO 13320:2009
Test range	0.01 μ m -1250 μ m
Number of detector channels	112-channel uniform crossover and area compensation multi-directional array
Ultra-high-speed motherboard	Ultra-high-speed acquisition motherboard (16bit.200kbs)
Measurement accuracy	Accuracy and repeatability Dv50 are better than $\pm 0.5\%$ (NIST traceable standard sample)
No need to exhaust bubbles	Equipped with a bubble-free design, no bubble interference, more accurate data
Laser parameters	Imported fiber output high-power semiconductor laser $\lambda = 635\text{nm}$, $p > 10\text{mW}$, service life > 50000 hours
Laser intelligent management system	Real-time monitoring of the instrument's working status, once receiving the work command, the intelligent management system will instantly light up the laser, and the high-performance laser will reach a stable working state within 3 seconds
Optical centering system	Mechanical center + optical center dual positioning fully automatic alignment system

Operation mode	SOP editable one-button fully automatic measurement	
Concentration range	Minimum shading 3%, maximum shading 90% (optical density)	
Sample window	Special coating process, light signal transmittance> 99.7%	
Built-in dispersion method	Ultrasound	Frequency: f=40KHz, Power: p=80W, Time: adjustable at will; with ultrasonic anti-dry burning
	Stirring	Integrated design of circulation and stirring, speed: 100-3950rpm adjustable speed
	Circulation	Ratedcirculationflow:0-10L/minadjustableRatedpower:25W
Sample cell	Self-designed boiling sample pool, better dispersion effect, capacity: 190-600mL can be tested normally	
Measurement time	Typical value <10 seconds	
Ambient temperature	0°-45°C	
Ambient humidity	10%-85% relative humidity (non-condensing)	
Power requirement	110V-240V (±20V) , 50Hz-60Hz	
Volume	1050mm*325mm*335mm	
Weight	45Kg	

Software Features	
Testreport	The test report can be exported to various formats such as Word, Excel, picture (Bmp) and text (Text), which can meet the needs of viewing the test report in any occasion and citing the test results in scientific research articles.
DIY	The user can customize the data to be displayed, calculate the percentage based on the particle size, calculate the particle size based on the percentage, or calculate the particle size based on the percentage.
Statistical method	Volume distribution and number distribution to meet different statistical methods for particle size distribution in different industries
Statistical comparison	Statistical comparison and analysis can be performed on multiple test results, and the differences between samples from different batches, samples before

	and after processing, and test results at different times can be clearly compared, which has great practical significance for the quality control of industrial raw materials.
Analysis mode	Including free distribution, R-R distribution and log-normal distribution, statistical mode by mesh classification, etc., to meet the different requirements of different industries for the statistical method of particle size of the tested samples
Display templates	The percentage of particle size interval is calculated to meet the characterization methods of particle size testing in different industries. Diameter distance, consistency, interval accumulation, etc.
Smart operation mode	It is a truly fully automatic operation without human intervention. There is no interference from human factors. You only need to add the sample to be tested according to the prompts, and the test results are more repeatable.
Multi-language support	The interface supports English languages, and other language interfaces can also be embedded according to user requirements.



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