



S3500

Laser Diffraction Particle Size Analyzer



S3500 Features

- TRI-LASER, red, multi-detector, multi-angle optical system
- Algorithms that utilize Mie compensation and Modified Mie calculations for non-spherical particles
- Measurement capability from 0.02 to 2800 microns
- Wet and Dry Measurements
- Fixed detectors and lasers
- Enclosed optical path ensures complete protection of the optical components leading to little or no operator intervention
- Small bench footprint

S3500 Specifications

Measuring Range	0.02 to 2800 Microns
Basic Range	Wet: 0.7 to 1000 um Dry: 0.7 to 1000 um
High Range	Wet: 2.75 to 2800 um Dry: 2.75 to 2800 um
Standard Range	Wet: 0.24 to 1400 um Dry: 0.24 to 1400 um
Special Range	Wet: 0.086 to 1400 um Dry: 0.24 to 1400 um
Extended Range	Wet: 0.021 to 2000 um Dry: 0.24 to 2000 um
Enhanced Range	Wet: 0.021 to 2800 um Dry: 0.24 to 2800 um
Precision	Spherical Glass Beads D50 = 642 micron, Precision as CV = 0.7% Spherical Glass Beads D50 = 56 micron, Precision as CV = 1.0% Spherical Latex Beads D50 = 0.4 micron, Precision as CV = 0.6%
Lasers	Wavelength 780nm - Class 1 Laser Product per 21 CFR 1040.10
Power	3mW nominal
Detection System	Two fixed photo-electric detectors with logarithmically spaced segments placed at correct angles for optimal scattered light detection. 0.02 to 163 degrees using 151 detector segments.
Data Handling	Volume, Number and Area distributions as well as percentile and other summary data. Data is stored in ODBC format in encrypted Microsoft Access Databases to ensure compatibility with external statistical software applications. Data integrity may be ensured using FDA 21 CFR Part 11 compliant security features including password protection, electronic signatures and assignable permissions.
Typical Analysis Time.	10 to 30 seconds
Electrical.	AC input: 90 - 132 VAC, 47 - 63 Hz, single phase 200 to 265 VAC, 47 - 63 Hz, single phase
Power Consumption	25W nominal, 50W Max., depending on options installed
Environmental	Temperature: +5 to +40°C Humidity: 90% RH, non- condensing maximum Storage Temperature: -10 to 50 Degrees C (14 to 122 Degrees F)(Dry only) Pollution: Degree 2
Physical Specifications Finishes Dimensions Weight	Case Material: Steel and impact resistant plastic Exterior Surfaces finished with corrosion resistant paint or plating 14H x 22W x 18D in (360H x 560W x 460D mm) 60 lbs (27 kg)
Dry Operation	100 psi (689 kPa) maximum pressure 5 CFM at 50 psi (345 kPa) minimum flow rate Free of dry contaminants, moisture and oil.
Vacuum	Vacuum must exceed 50 CFM

Accessories

SDC



Turbotrac



SIA



MAC26



USVR



For More Information and
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www.microtrac.com/s3500