



# S3500

## Laser Diffraction Particle Size Analyzer



## Microtrac 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
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:	10 to 30 seconds
Environmental:	Temperature: 10 to 35 Degrees C. (50 to 95 Degrees F) 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:	Case Material: Steel and impact resistant plastic
Finishes	Exterior Surfaces finished with corrosion resistant paint or plating
Dimensions	14H x 22W x 18D in (360H x 560W x 460D mm)
Weight	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 on the unique benefits of the S3500, a software demo, or to request a quote, please scan this QR code with your smartphone or tablet or visit [microtrac.com/S3500](http://microtrac.com/S3500)



Complex Particles. Clear Data.

SL-PS-01 Rev. F