SPECIFICATIONS

Saturn DigiSizer® II

LASER

Type	Solid-state, Diode
Wavelenght	658 nm
Power Output	6 to 9 mW
Beam Type	Parallel
Beam Width (in sample)	16 mm Certified under IEC 825 as a Class 1 laser product

LENS

Focal length, 200 mm (fixed)

DETECTOR

Number of Elements	3,407,872
Geometry	Rectangular array with 3328 x 1024 pixels used at 14 different angles to yield the equivalent of over 47 million elements
Alignment	Automatic

SAMPLE CIRCUIT

Circulation Pump Rate	5 to 19 L/min (Standard sample handler) 2 to 12 L/min (Low-volume sample handler)
Circulation System Volume	590 to 690 mL (Standard sample handler) 100 to 120 mL (Low-volume sample handler)
Materials Routinely Contacting Sample	Borosilicate glass; stainless steel; Tygon® (fuel grade) tubing; Titanium; Kel-F (CTFE); epoxy; Ertalyte®; Viton® F and Kalrez (Low-volume sample handler only)

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OUTPUT

Measurement Range	0.04 to 2500 m Equivalent Spherical Diameter (Standard sample handler) 0.04 to 750 m (Low-volume sample handler)
Measurement Time	Less than ve minutes, sample to sample
Size Class Range	40 per decade for four decades

DECONVOLUTION

Mie theory and Fraunhofer theory models applied

ELECTRICAL

Voltage	Saturn DigiSizer II: 100/115/220/240 VAC Sample Handler: 85 to 264 VAC
Frequency	47 to 63 Hz
Power	Saturn DigiSizer II: 150 VA Sample Handler: 100 VA

COMPUTER REQUIREMENTS

Minimum requirements	32 bit, Windows® 7 Professional or higher operating system 512 megabytes of main memory 20-gigabytes hard drive CD-ROM drive Ethernet port* (capable of communicating with a 10 base-T or 100-TX card) 1024 x 768 monitor display capability

ENVIRONMENT

Temperature	Ambient + 10 to 35 °C, operating -10 to 55 °C, storing or shipping
Humidity	Up to 90% (non-condensing)

PHYSICAL

*An additional ethernet port is required if the computer is to be connected to a network.

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Saturn DigiSizer	Height: 50 cm (19.7 in.) Width: 47 cm (18.5 in.) Depth: 65 cm (25.6 in.) Weight: 45 kg (99 lbs)
Sample Handler	Height: 50 cm (19.7 in.) Width: 27.5 cm (10.8 in.) Depth: 65 cm (25.6 in.)

**Due to continuous improvements, specifications are subject to change without notice.*

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