

SURVEYOR[®] RE-SERIES

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The Leader in 3D Laser Scanning Since 1987



Surveyor[®] RE-1208 3D Laser Scanner

- *Ideal for easy scanning of small, highly detailed objects such as coins and jewelry.*
- *Popular with anthropologists, archeologists and paleontologists for scanning of small bones, fossils and artifacts.*
- *Affordable cost, high-speed scanning capability and very easy to learn.*

Laser Design Inc. the world leader in 3D laser scanning, introduces the RE-1208, an affordable desktop 3D scanning system with European CE Mark that is well suited for scanning small, highly-detailed objects such as coins and jewelry. Popular with anthropologists, archeologists and paleontologists in museums and universities the world over, the RE-1208 system is also an excellent choice for scanning small artifacts like teeth and fossils. The system scans parts from all orientations and easily merges the data into a common coordinate system known as a “3D point cloud”. The rotary stage option automates the scanning process making it even easier and faster.

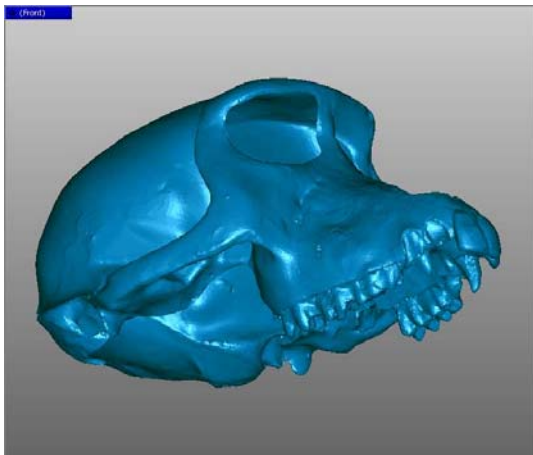
Our patented laser probe technology dramatically reduces scanning time by collecting data significantly faster and more accurately than with other technologies. Laser Design’s Surveyor Scan Control software controls the scanning motions, manages the laser probe settings and contains advanced automation features. After scanning the object, the scan data can be processed further with optional software from Raindrop Geomagic. The optional software enables users to take measurements and create STL files and surface models right



from the scan data. You can also use your existing CAD/CAM for data processing software since our system exports in IGES format.

The RE-1208 system is based on a 4-axis stepper motor driven unit, which incorporates an enclosed linear bearing system with ground steel rails and recirculating bearings. This mechanical system delivers durable, play-free motion that is rigid and stable. All drive electronics are built in so that no separate controller is needed. A safety enclosure ensures worry-free operation even for non-technical users. Both compact and sturdy, these systems can be easily transported.

The system package includes Surveyor Scan Control software, our highest accuracy RPS-120 laser probe, QuickStart training class, and one-year warranty. Factory installation is available as an option. Extended warranty programs, rotary stages and other accessories are also offered.



Surveyor RE-1208 Machine Specifications

Laser probes	RPS-120 laser probe. Refer to separate laser probe specification sheet for more information.
Software – Laser Scanning	Surveyor Scan Control software. Supports point-to-point scanning mode.
Computer	High-performance PC with advanced video.
Controller	4-axis CNC stepper motion controller with built-in drive electronics.
Power requirements	120V, 60 Hz, 15A, or 220V, 50 Hz. UPS (Uninterruptible Power Supply) suggested.
Environmental requirements / Machine Structure	Temperature: 68° F ± 3° F / 20° C ± 1.8° C Humidity: 50% ± 15% / Gantry structure
Axes	X,Y,Z, optional rotary.
Bearing system	Recirculating enclosed linear bearings with ground steel rails.
Measuring table	Aluminum with T-slotted work surface for easy mounting of optional tooling.
Measuring system	Anti-backlash ball nuts and ball screws. Uses 16 mm diameter ball screw with 4 mm screw pitch on X, Y, and Z axes.
Warranty	One year parts and labor.
Installation	Optional factory installation is available.
Repeatability per axis	≤ .0004" / ≤ .01 mm
Positioning accuracy per axis	≤ .002" / ≤ .05 mm
Resolution	.0004" / .01 mm
Maximum speed per second	1" / 24 mm per second
Travel (X,Y,Z) – in.	11.6 x 7.8 x 5.1
Travel (X,Y,Z) – mm	295 x 200 x 130
Machine weight (without laser)	167 lbs / 76 kg
Table size – in. / mm	19.7 x 9.8 / 500 x 250
Maximum Part Weight	100 lbs / 45 kg
Dimensions (w,d,h) – in.	24 x 26 x 28
Dimensions (w,d,h) – mm	610 x 655 x 705



Specifications subject to change without prior notice. Specifications based on Renishaw touch probe measurement. For measurement accuracy with laser sensor, refer to laser specifications.



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