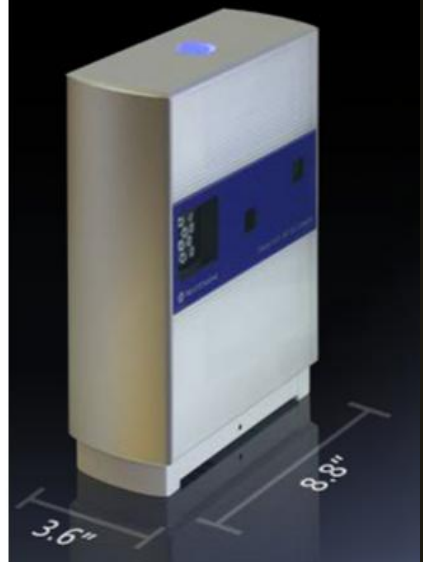


3D Scanner



From Physical to Digital.
Right at Your Desk.





Specifications:

ARCHITECTURE

Measurement System	NextEngine proprietary MultiStripe Laser Triangulation (MLT) technology. Patents Pending.
Source	Twin arrays of four, Class 1M, 10 mW solid state lasers with custom optics. 650 nm λ .
Sensor	Twin 3.0 Megapixel CMOS image sensors.
Photo Surface	Optically synchronous 7-color surface capture for precision-locked geometry correlation.
Photo Lighting	Built-in spatially diverse whitelight texture illuminators with tri-phosphor, wide color gamut.
AutoPositioner™	High precision rotary servo positioner, auto-incremented under scanner control. 20 lb max.
PartGripper™	Universal part holder to adjust height, angle and orientation of capture. 10 lb capacity.

PERFORMANCE

Object Size	No preset limit. Objects larger than Field can be composite-captured with supplied software.
Field Size	5.1" x 3.8" (Macro) and 13.5" x 10.1" (Wide). ("soda can" and "shoebox" sizes).
Resolution	Geometry point density on target surface is 400 DPI in Macro Mode and 150 DPI in Wide Mode.
Texture Density	400 DPI on target surface in Macro Mode and 150 DPI in Wide Mode.
Dimensional Accuracy	± 0.005 " in Macro Mode and ± 0.015 " in Wide Mode.
Acquisition Speed	50,000 processed points/sec throughput. Typically 2 minutes per scan of each facet.
Typical Datasets	Typical small models are a quarter million points, after oversampling and optimization.
Environmental	Desktop use under ordinary office lighting. No darkroom or special backgrounds required.

SOFTWARE

ScanStudio™	Software to Scan, Align, Polish and Blend 3D Models. High performance OpenGL 3D viewer.
SolidWorks Integration	Scan right inside SolidWorks (Office Premium 2007). Click to toggle between scanning/design.
Native File Format	SolidWorks + NextEngine co-developed native format. No import or export needed.
Standalone Use	ScanStudio also works outside SolidWorks for creation of standard format scan output files.
Format Options	Scans can be output as STL, OBJ, VRML, U3D and PLY files (more in future releases).
File Size	20MB for typical model, based on 10 facet scans.
Modeling Tools	Assemble views into a model conveniently with built-in Smart Alignment and trim tools.

GENERAL

System Requirements	HD: 2 GHz, 2GB RAM, 128MB graphics, Windows XP. Powered USB hub recommended. HD PRO: 2 GHz Dual Core, 4GB RAM, 512MB graphics. Windows XP/Vista (64bit recommended)
Interface	USB 2.0 high speed interface. USB cable included.
Power	100 – 240 VAC built-in worldwide auto-switching power supply. AC cable included.
Eye Safe	Beam is about 1/1000th brightness of a laser pointer (but avoid looking into beam).
Tripod Mount	Stainless steel 1/4 - 20 thread standard screw mount for tripod setups.
Size	Compact 8.8" x 3.6" (letter size) desktop footprint. 10.9" high. Approximately 7 lbs.