







## 3D SCANNER 🖽

# Dream. Shape. Scan.

# \$2,995

DRIVE .



WWW.NEXTENGINE.COM

# Image: Second state sta

## 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 wavelength.
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.
AutoDrive™	High-precision rotary servo positioner, auto-incremented under scanner control. 20 lb capacity.
PartGripper™	Universal part holder to adjust height, angle, and orientation of capture. 10 lb capacity.

#### SOFTWARE

ScanStudio HD™	Software to Scan, Align, Polish, and Fuse 3D Models. High-performance OpenGL 3D vi	ewer.
SolidWorks Integration	Scan inside SolidWorks (Office Premium 2007 + later). Click to toggle between scannin	g/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	t files.
Format Options	Scan data can be output as mesh file formats: STL, OBJ, VRML, XYZ, U3D, and PLY files	
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 tool	S.
ScanStudio HD™	Points-to-Mesh solution. Drives scanner and builds 3D mesh models.	Standard
ScanStudio HD PRO™	Delivers 2X scan speed, 4X raw point data, and offers Large Object (23" x 17") mode.	\$995
ScanStudio CAD TOOLS"	* Points-to-NURBS solution. Adds surfacing and spline output to speed CAD modeling.	\$995
RapidWorks™	State-of-the-art Points-to-CAD engineering tool. Build solid models with feature trees.	\$2,995

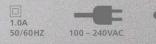
### PERFORMANCE

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, respectively.)
Capture Density	Capture density on target surface is up to 160K points/in <sup>2</sup> (Macro) and 22.5K points/in <sup>2</sup> (Wide).
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.

#### GENERAL

<b>Minimum Requirements</b>	2GHz Dual Core, 2GB RAM, 256MB graphics, Windows XP / Vista / 7.
Recommended System	4+ GB RAM, 512+ MB graphics. 64-bit Windows XP/Vista / 7.
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.

#### O NEXTENGINE DESKTOP 3D SCANNER -



USB 2.0

MANUFACTURED BY NEXTENGINE INC. SANTA MONICA, CA WORLDWIDE PATENTS PENDING ASSEMBLED IN MALAYSIA \* MODEL 2020i

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