

NEXTENGINE DESKTOP 3D SCANNER

TECHSPECS

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.
AutoPositioner™	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 viewer.
SolidWorks Integration	Scan inside SolidWorks (Office Premium 2007 + later). 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	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 tools.
ScanStudio HD™	Points-to-Mesh solution. Drives scanner and builds 3D mesh models. Free updates! Standard
ScanStudio HD PRO™	Delivers 2X Scan Speed, 4X raw point data, and offers Large Object (30" x 24") 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. \$2,495

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.)
Resolution	Geometry point density on target surface is 200 DPI in Macro Mode and 75 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.

GENERAL

System Requirements	HD: 2GHz CPU, 2GB RAM, 128MB graphics, Windows XP. Powered USB hub recommended.
System Requirements	HD PRO: 2 GHz Dual Core, 4GB RAM, 512MB graphics. Win XP/Vista (64-bit 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.

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MODEL 2020i

1.0A
50/60HZ

100 – 240VAC

USB 2.0

MANUFACTURED BY NEXTENGINE INC. SANTA MONICA, CA
WORLDWIDE PATENTS PENDING

ASSEMBLED IN CHINA

FC
FOLLOW TO comply with FCC conditions FOR HOME OR OFFICE USE

UL LISTED
L.T.E. EX05225
NWGO

TAAPER EVIDENT SEAL. WAIPAKICYIYOH JI. QP37E2



LASER LIGHT — DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS (MAGNIFIERS)
CLASS 1M LASER PRODUCT 635-670nm ±2.28mW CW
CLASSIFIED PER IEC 60825-1, Ed 1, 2, 2001-08
COMPLIES WITH FDA PERFORMANCE STANDARDS FOR LASER PRODUCTS EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE NO. 58, DATED JULY 25, 2001



 NEXTENGINE

3D SCANNER HD

Dream. Shape. Scan.

\$2,995

AUTOPOSITIONER ▶



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