Dream. Shape. Scan.
ARCHITECTURE
Measurement System: NextEngine Patented MultiStripe Laser Triangulation (MLT) technology.
Source: Twin arrays of four, Class 1M, 10 mW solid-state lasers with custom optics. 650 nm wavelength.
Sensor: Twin 5.0 Megapixel CMOS image sensors.
Photo Surface: Optically synchronous 7-color surface capture for precision-locked geometry correlation.
Photo Lighting: Built-in spatially diverse LED white-light texture illuminators with 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
Format Options: Scan data can be output as mesh file formats: STL, OBJ, VRML, XYZ, and PLY files.
File Size: 200MB 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™: Points-to-Mesh solution. Drives scanner and builds 3D mesh models. Standard
ProScan™: Delivers 2X scan speed and Large Object (23” x 17”) mode. $995
UltraRes™: Ultra high resolution imaging modes. $995
CAD TOOLS™: Points-to-NURBS. 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 268K points/in² (Macro) and 29K points/in² (Wide).
Texture Density: 500 DPI on target surface in Macro Mode and 200 DPI in Wide Mode.
Dimensional Accuracy: ±100 micron in Macro Mode and ±300 micron 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
Minimum Requirements: 2.5GHz Quad Core, 16GB RAM, Fast GPU, Windows 7 & 8 (64-bit).
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.