



SPECIFICATIONS

Measuring Method	Triangulation by light sectioning method
Light Source	Structured Laser Light
Laser Class	Class IIIa (21 CFR1040.10 and .11)
Number of pixels taken	1.23 megapixels (1280 x 960)
Measurement Distance	760 mm
Measurement Envelope	225 x 300 x 200
X Y direction measurement interval	0.23
Accuracy *1	± 150 µm
Scan Time	5 seconds (1 scan)
Preview Function	Live camera viewfinder
Scanning ambient lighting condition	500 lx or less
Output Interface	Gigabit ethernet
Power	Included AC adapter Input voltage: 100 to 240 VAC (50/60 Hz), Rating 1.0A (at 100 VAC input)
Dimensions	248 (W) x 108 (H) x 144 (D) mm (excluding handle)
Weight	Approx. 2kg
Operating temperature / humidity range	10 to 40°C; Relative humidity 65% or less (no condensation)
Storage temperature / humidity range	-10 to 50°C; Relative humidity 85% or less (at 35°C, no condensation)

*1 Accuracy specification is an approximate value. The accuracy is not certified against industry standards.

OPERATING ENVIRONMENT

OS	Windows 7 64-bit, Mac OS X 10.6 (with Intel processor)
CPU	Core2Duo, Xeon or higher
RAM	4 GB or more
Display	Graphics display capability of 1280 x 1024 or more
Graphics Board	OpenGL compatible board (Virtuoso verified compatible board recommended)
Interface	Gigabit ethernet



3D Laser Scanner



Ultra Portable. High Resolution. Affordable.



KONICA MINOLTA



VIRTUOSO by threeRivers 3D, exclusively distributed by Konica Minolta

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The Virtuoso enables users to quickly generate 3D models from real world objects. Its patented LaserCode technology employs a unique laser-based structured light system, achieving unparalleled levels of speed and accuracy.



VIRTUOSO 3D SCANNER IS MEETING THE DEMANDS OF THE INDUSTRY

Education

The Virtuoso 3D scanner is a useful learning tool for educational institutions; particularly among novice users studying Graphic and Digital Arts, Engineering, Medical, Science and Architecture to name a few. Virtuoso's scanner technology can quickly and affordably scan, archive, restore or rapid prototype various objects all within a classroom setting. The Virtuoso 3D scan equipment not only will keep institutional facilities current with technological standards of the field, it will also provide students a hands-on learning experience vital for application in work environments.

Why Virtuoso EDU is a good fit:

- Gigabit Ethernet Network interface allows sharing of scan data information among interconnected computers
- Windows and Macintosh compatible
- Ease of use for novice / part-time user
- Portable and Lightweight for transfer within campus, workshops or field
- Affordable low cost, high quality ideal for academic setting
- Unlimited software licenses of Tributary and Meshlab
- 21 licenses of Rapidform XOR and XOY

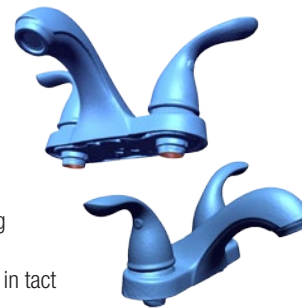


Industrial Design

Virtuoso's 3D scanner is ideal for capturing both freeform and organic shapes. It allows industrial designers to conceptualize designs, output 3D models using CAD software and configure designs to meet precise specifications. The Virtuoso scanner is useful for analyzing products original design intent, redesigning defect-free parts or products, or creating new parts from legacy parts and handmade prototypes. The Virtuoso 3D scanner speeds up product design and saves money by cutting production time, and material costs while improving aesthetics.

Why Virtuoso RES is a good fit:

- Compact size for desktop or tripod mounted
- Ideal for capturing freeform and organic shapes
- Flexible for scanning a range of part sizes
- Accurate and fast, capturing a single view (1.2 million polys) in seconds
- Creates editable, parametric solid model
- Transferable to popular CAD applications, including Solidworks, Siemens NX, Pro Engineer, CATIA V4, CATIA V5 and AutoCAD with complete feature tree in tact

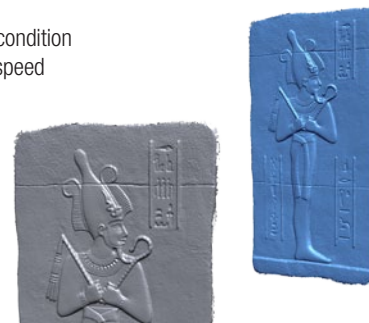


Arts & Heritage

Virtuoso's scanners provide the most field-efficient means of data collection. Whether your observing fine art or ancient artifacts, the Virtuoso will preserve the objects original form. Artists and Archeologists alike can use scan data to examine works in close proximity - discovering what may have been left unnoticed. The Virtuoso's scanning technology can also preserve art & cultural heritage by outputting scan data from solid living images in the form of virtual restoration. The retrieved data can be archived for preservation, reproduced for market or researched for study.

Why Virtuoso PRO is a good fit

- Capable of operating under any lighting condition
- Capture very high detail at unparalleled speed and accuracy
- Reliable & portable, weighing 5 pounds
- Battery operation, ideal for remote settings
- Simple, point-and-shoot technology
- Water-tight carry case included



Entertainment & CGI

The versatility of Virtuoso's 3D scanners makes it the product of choice for a wide variety of applications in the entertainment industry for CGI (computer generated imagery). The scanners can be used to make realistic "life-like" special effects in movies and video games. This method is much easier and less time consuming than using 3D modeling software on a computer that can potentially take hours or weeks to complete.

Why Virtuoso PRO is a good fit

- Macintosh compatible scanner and animation software
- Rotary stage for easy 360 degree object and maquette scanning
- Scan data output to OBJ, 3DS, VRML, and other formats
- Capable of scanning medium / large size objects when used on tripod
- Runs on 64-bit. for fast data processing



VIRTUOSO

Entry-level system for generating polygon models.

VIRTUOSO PRO

Flexible and Portable.

VIRTUOSO EDU

Ideal for any academic setting. *Eligible to Degree Granting Institutions Only

VIRTUOSO RES

Reverse Engineering and Product Design Solution. Ideal for people who want to get data into their CAD system.

	Virtuoso \$17,999	Virtuoso PRO \$23,999	Virtuoso EDU \$29,999	Virtuoso RES \$39,999
Virtuoso 3D Scanner	X	X	X	X
Tributary Software (Mac & PC)	X	X	X	X
Meshlab Software (Mac & PC)	X	X	X	X
Rapidform XOR / Redesign Software (PC Only)				X
Rapidform Academic Suite (21 licenses of XOR and XOY) (PC Only)			X	
Rotary Stage		X	X	X
Tripod		X	X	X
Joystick Head		X	X	X
Travel Case		X	X	X
Data Output Formats				
Polygon Models	PLY	X	X	X
	STL	X	X	X
	OFF	X	X	X
	OBJ	X	X	X
	3DS	X	X	X
	COLLADO	X	X	X
	VRML	X	X	X
	DXF	X	X	X
	GTS	X	X	X
	U3D	X	X	X
Surface / Solid Models	IDTF	X	X	X
	X3D	X	X	X
	STP		X	X
Live Transfer — Transfer output model with full feature tree to native CAD system	IGS		X	X
	X_T		X	X
	X_B		X	X
	Solidworks		X	X
	Siemens NX		X	X
ProE Wildfire		X	X	
AutoCAD			X	X



About Rapidform XOR / Redesign

Rapidform XOR, the only 3G (third-generation) reverse engineering software, is a complete software application for creating CAD models from 3D scan data. With Rapidform XOR, you can open Virtuoso data quickly and create editable, parametric solid models of virtually any physical object. These models can be transferred from XOR into popular CAD applications, including SolidWorks®, Siemens NX™, Pro/ENGINEER®, CATIA® V4, CATIA® V5 and AutoCAD® with complete feature trees intact. This means that – unlike second generation reverse engineering software – the models from XOR are editable just like any other part designed in CAD. And, XOR can save models as Parasolid®, STEP, IGES and STL for use in any CAD/CAM/CAE application. The third-generation parametric reverse engineering approach inside XOR makes creating high quality, ready to manufacture CAD models fast and easy. Creating complete solid models accurate to within a few microns of a 3D scan takes less time than redrawing it in CAD. XOR, paired with a 3D scanner, is simply the fastest, most accurate way to create a design model of a real-world object.