



BDSYSTEMS®



# Geomagic Capture®

Scan-Based Design Systems





# Geomagic Capture<sup>®</sup>

**Geomagic Capture** is a powerful turnkey 3D scanner and software system that seamlessly brings physical objects into CAD and supercharges your product development process. Each configuration of Capture includes hardware and software to get you exactly what you need—not just a raw scan file.

## Accelerate Product Design

Take advantage of this consolidated Scan-Based Design system to ramp up the design process and get products to market faster. By starting with existing objects, you can create new products or alter old ones without the time requirements of designing from scratch.

## Unleash More Creativity

There's a reason automotive designers still use clay - starting from a real physical shape remains the best way to conceptualize and communicate complex shapes. Scan-Based Design empowers more creative product design for any industry, because it connects the real world with your design process.

## Reduce Integration and Training Costs

With Geomagic Capture you get one easy-to-use, affordable solution that bridges hardware, software and CAD for your convenience. Because it's a complete plug-and-play system, you won't have to burn time incorporating multiple products from multiple vendors into your workflow.

## Leverage the World Around You

Geomagic Capture represents a brand new design paradigm in which existing objects provide inspiration for innovative new products. Geomagic Capture's 3D scanner provides high-fidelity data that goes directly to CAD. Improve upon, learn from, customize and reuse the designs that surround you every day.

## Enhance Your CAD System

Geomagic Capture works flawlessly with SolidWorks<sup>®</sup> via plugins and connects directly to Siemens<sup>®</sup> NX<sup>™</sup>, Solid Edge<sup>®</sup>, Creo<sup>®</sup>, Pro/Engineer<sup>®</sup> and Inventor<sup>®</sup> via Geomagic<sup>®</sup> Design<sup>™</sup> X software. With the power to scan directly into CAD, you can design highly complex parts faster via one seamless workflow.

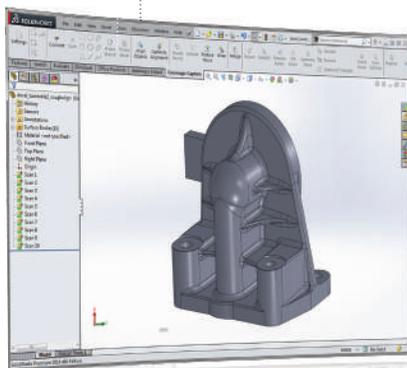
## Scan-Based Design Software Choices

### Geomagic Capture Plugins for CAD

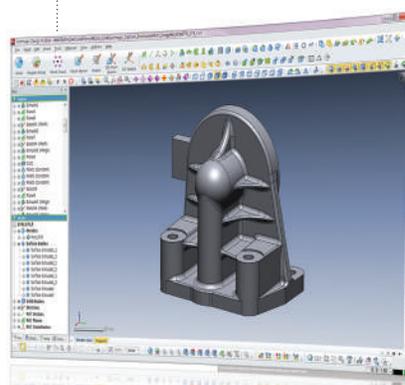
Scan-Based Design seamlessly integrated in CAD

### Geomagic Software

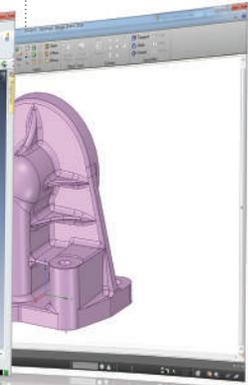
Powerful standalone Scan-Based Design software



### Geomagic<sup>®</sup> Design<sup>™</sup> X



### Geomagic<sup>®</sup> Wrap<sup>®</sup>



# The First Affordable, Complete Scan-Based Design System to Speed Up Product Development

## Professional-Grade, Accurate Scanning

The ultra-compact Geomagic Capture scanners capture precise data using state-of-the-art blue LED technology. These amazing devices capture almost one million points in 0.3 seconds to create detailed models of physical objects. The Capture scanner is accurate to as little as 0.060mm, and the Capture Mini scanner is accurate to as little as 0.034mm.

## Radically Lower Cost

Complete Geomagic Capture systems cost less than other professional 3D scanners and include both hardware and Geomagic's industry-leading software. For the first time, you can get the accuracy, scanning size envelope and ease of use that you need to adopt Scan-Based Design.

## Powered by Proven Technology

Geomagic Capture utilizes industry-leading technology from 3D Systems. You get the easiest, most powerful Scan-Based Design software technology combined with proven scanning hardware.

## End-to-End System Provides CAD Output

Geomagic Capture isn't just a 3D scanner. Each package includes software or plugins that ensure the output you get is a finished CAD model, no different from any other design model. More than simply mesh or static NURBS surfaces, Geomagic Capture delivers intelligent, feature-based CAD models.

## Simplicity

Geomagic Capture is a plug-and-play system that is fully compatible with your existing design software. Whether you choose to use one of the Geomagic Capture CAD plugins or standalone Geomagic software, you'll be able to quickly and easily create intelligent CAD models directly from the scanner.

## Built for a Variety of Demanding Applications

Geomagic Capture's portable scanner options and flexible software make it a perfect fit for a variety of applications, from heavy-duty manufacturing to industrial design to automotive to jewelry. This new method of Scan-Based Design empowers designers across all industries to swiftly create the type of innovative products that customers demand.

## 3D Scanner Choices

Choose between two small yet powerful, scanners that harness the power of blue LED structured light to create highly accurate models.

### High Definition

Measures 985,000 points per shot in 0.3 seconds.

### Compact & Portable

The scanner fits easily on a desk, yet it's rugged enough for the shop floor. Fits easily in a carry-on for convenient travel.

### Simple Setup

Take it out, plug it in, and you're ready to scan. No calibration or other setup needed.

### Versatile

Ready to take on demanding applications, the scanner can be used for 3D Scan-Based Design as well as inspection.

### Capture



### Capture Mini



## Geomagic Capture Pro Pack

The Geomagic Capture Pro Pack gives you the power of hands-free 360° scanning in a specially designed, portable package. This all-in-one scanning solution includes a powered, fully automatic rotary table and positioning arms to hold parts for complete scan coverage. Power up your Geomagic Capture scanner for easier Scan-Based Design and quality inspection. It's all secured inside a form-fitted hard case that's small enough to fit in an overhead bin and light enough to carry wherever you go.



**Geomagic Capture®** is offered in a variety of packages, each of which is a complete solution for Scan-Based Design. Choose from one of these three packages:

**Geomagic Capture®**  
for SolidWorks®

Take advantage of this consolidated Scan-Based Design system to ramp up the design process and get products to market faster. By starting with existing objects, you can create new products or alter old ones without the time requirements of designing from scratch.

**Package includes:**

Capture or Capture Mini scanner,  
Geomagic Capture for SolidWorks add-in software

**Geomagic Capture®**  
for Design™ X

Powerful Scan-Based Design for the most demanding applications. Create CAD models in Design X and transfer them, with complete feature trees, to Siemens NX, PTC Creo, Pro/E, Inventor and SolidWorks.

**Package includes:**

Capture or Capture Mini scanner,  
Geomagic Design X software

**Geomagic Capture®**  
for Geomagic® Wrap

Scan it, mesh it and surface it in minutes. Use a wide range of point cloud and mesh editing tools, automatic surfacing plus advanced exact surfacing tools. Save to multiple neutral file formats for archive, 3D printing and more.

**Package includes:**

Capture or Capture Mini scanner,  
Geomagic Wrap software

\* Geomagic Capture packages for inspection are also available.

**3D Systems Capture Scanner Specifications**

Property	Capture	Capture Mini
<b>Weight</b>	1.35 kg	1.04 kg
<b>Dimensions</b>	49 x 74 x 276 mm	49 x 109 x 155 mm
<b>Data Capture Rate</b>	985,000 points/scan (0.3 sec per scan)	985,000 points/scan (0.3 sec per scan)
<b>Resolution</b>	0.110 mm at 300 mm; 0.180 mm at 480 mm	0.080 mm at 157 mm; 0.100 mm at 227 mm
<b>Accuracy</b>	0.060 mm	0.034 mm
<b>Stand-off Distance</b>	300 mm	157 mm
<b>Depth of Field</b>	180 mm	70mm
<b>Field of View</b>	124 x 120 mm (near) 190 x 175 mm (far)	87 x 68 mm (near) 88 x 87 mm (Far)
<b>Computer Requirements</b>	Windows 7 (64-bit) Operating System, Quad-core Intel 2 GHz CPU or better, Gigabit Ethernet Interface, 4 GB Memory or greater, 512 MB Video Card or better	

GoMeasure3D is an authorized distributor of the Geomagic Capture.



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