



BDSYSTEMS®



# Geomagic Capture®

Scan-Based Inspection Systems





# Geomagic Capture<sup>®</sup>

**Geomagic Capture** is a powerful turnkey 3D scanner and inspection software system that enables accurate, fast scan-to-CAD comparison and dimensioning, so you can verify part quality and reduce manufacturing errors. Each configuration of Capture includes hardware and software to get you complete inspection reports—not just a raw scan file.

## Harness the Power of 3D Scanning

Take the next step in product verification and inspection with 3D scanning. Powered by advanced blue LED projection technology, Geomagic Capture scanners accurately measure parts and quickly show you where parts are in and out of tolerance.

## Reduce Errors and Save Time

Geomagic Capture is a powerful metrology system that sits on your desktop, so you can check part quality quickly and fix problems fast. Get the precise detail of blue light LED scanning coupled with easy-to-use inspection software.

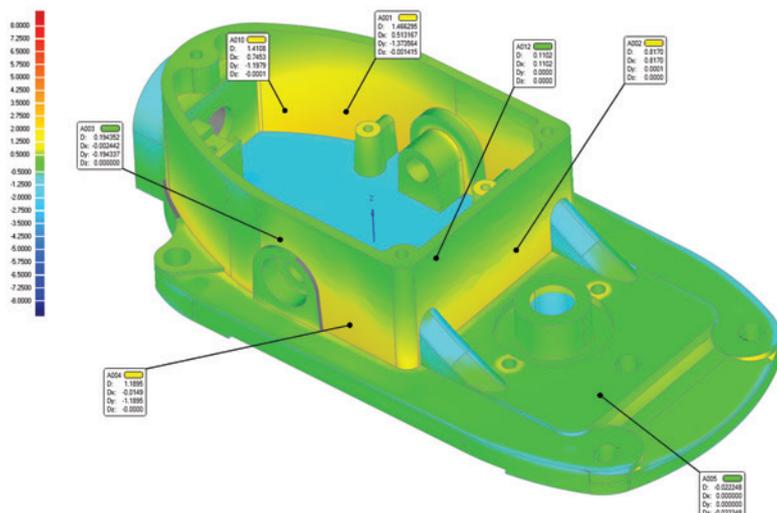
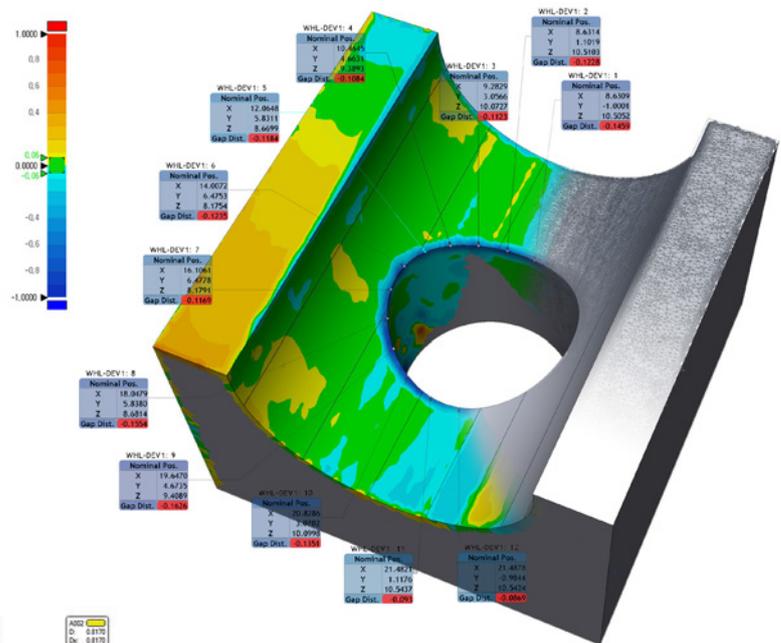
## Inspect and Verify with Confidence

Top manufacturers count on 3D Systems' Geomagic software to ensure their parts fit the bill. The seamless combination of our software with Geomagic Capture's industrial-grade structured light scanners allows you to scan with confidence.

## Ensure Process Consistency and Efficiency

With inexpensive, easy-to-use metrology at your fingertips, you can inspect more parts more frequently, ensuring that your products are made right every time. No matter where a part came from, you can scan and quickly compare back to your CAD designs.

**Geomagic<sup>®</sup> Verify<sup>™</sup>**  
Powerful, Easy First Article Inspection



**Geomagic<sup>®</sup> Control<sup>™</sup>**  
Complete Metrology Automation Platform

# The First Affordable, Fully Integrated Scanning and Inspection System

## Powered by Proven Inspection Technology

Geomagic Capture utilizes proven inspection technology from 3D Systems. Thousands of manufacturers around the world depend on these tools for quality control every day. With Geomagic Capture, you get reliable, repeatable inspection in a simple plug-and-play solution.

## Highly Accurate Scanning

The ultra-compact Geomagic Capture scanners capture precise data using advanced blue LED projection technology. Light and easy to transport, these scanners are pre-calibrated to produce repeatable results in some of the toughest industrial environments.

## Push-Button Simplicity

At a fraction of the price of stand-alone scanners, Geomagic Capture is a complete plug-and-play system that integrates seamlessly with Geomagic Control™ or Geomagic Verify™ inspection software. There's no need to import and export; you simply push a button, scan, compare and measure in one software.

## Built for a Variety of Demanding Applications

Geomagic Capture's portable scanner and flexible software make it a perfect fit for a variety of needs, from heavy-duty manufacturing to industrial design to automotive. This modern method of verification can help manufacturers across all industries to make sure the end product is faithful to the original design.

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## 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



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## 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 two packages for inspection. Choose the package that's right for your needs:

**Geomagic Capture**  
for Verify

Enables easy first article inspection, with CAD comparison, extensive geometric dimensioning and tolerancing, and easy reporting.

**Ideal for:**

Inspecting one-off or first article parts, where each inspection routine is unique.

**Package includes:**

Capture or Capture Mini blue light LED 3D scanner, Geomagic Verify software

**Geomagic Capture**  
for Control

Enables completely automated inspection, with powerful scripting tools that make repeated inspection of multiple parts as simple as a single button click.

**Ideal for:**

Rapid automated inspection of multiple samples of the same part. Program it once, and let Control inspect parts automatically.

**Package includes:**

Capture or Capture Mini blue light LED 3D scanner, Geomagic Control software

\* Geomagic Capture packages for Scan-Based Design 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	

### Contact Information

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### About 3D Systems

3D Systems is a leading provider of 3D content-to-print solutions including 3D printers, print materials and on-demand custom parts services for professionals and consumers alike. The company also provides CAD, reverse engineering and inspection software tools and consumer 3D printers, apps and services. Its expertly integrated solutions replace and complement traditional methods and reduce the time and cost of designing new products by printing real parts directly from digital input. These solutions are used to rapidly design, create, communicate, prototype or produce real parts, empowering customers to create and make with confidence.