

DIRECT[®]
d i m e n s i o n s

rapid solutions to 3D problems...[®]

Product and Service Catalog 2009

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Direct Dimensions, Inc.

10310 S. Dolfield Road
Owings Mills, MD 21117

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www.dirdim.com



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Product/Service Solutions for 3D Measurement

Laser Scanners

Product	Description	Applications	Price Range
	Surphaser Laser Scanner Basis Software, Inc.	High-resolution, accurate, long-range, large-volume, portable laser scanner. 360° x 270° field-of-view; up to 800,000 points per second.	\$95,000 to \$100,000
	Dimensional Imaging DI3D Dimensional Imaging Ltd.	Instantaneous image capture and automatic post processing to create accurate, high resolution, full-color 3D models.	\$20,000 to \$140,000
	ViALUX z-Snapper 3D Camera ViALUX Messtechnik + Bildverarbeitung GmbH	Self-contained, plug & play, LED-based DLP projection 3D camera. Because of fast (40 ms) recording time, can be operated in any desired position, even hand-held.	\$25,000 to \$50,000
	Konica Minolta Range7 3D Digitizer Konica Minolta, Inc.	Portable, compact, point-and-shoot laser scanner for industrial applications. Two interchangeable lenses with multi-focus mode able to obtain more accurate data.	~\$80,000
	Konica Minolta VIVID 3D Laser Camera Konica Minolta, Inc. <ul style="list-style-type: none"> • 9i • 910 • 910 fw • Photogrammetry 	Simple to use point and shoot laser scanner. Reverse engineering and inspection applications.	\$25,000 to \$55,000

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Product	Description	Applications	Price Range
	LDI SLP Laser Scanner Laser Design Inc.	High-accuracy, fast, flexible, portable 3D laser scanning system. 3" to 12" laser line options for a range of applications. Dual receptor reduces scanning passes, cutting down scanning time.	\$16,900 to \$22,900
	FARO Laser ScanArm FARO Technologies, Inc.	The FARO Laser Line Probe hard probe and 3D laser scanner can digitize interchangeably without having to remove either component.	\$30,000 to \$40,000
	FARO Laser Scanner LS FARO Technologies, Inc.	High resolution, fast, accurate, portable spherical laser scanner with approx. 3mm linearity error at 10m. Range from 1M to 50M.	\$90,000 to \$120,000
	GSI iScan Digital 3D Camera Geometry Systems, Inc.	Low-cost, compact, module-based digital 3D camera. Resolution can vary based on cameras used. Link up multiple systems for simultaneous capture.	\$14,000 to \$20,000
	Immersion MicroScan 3D Laser Scanner Immersion Corporation / RSI	Fast, lightweight, compact, six-degrees-of-freedom laser scanning integration to the MicroScribe.	~\$15,000

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Product	Description	Applications	Price Range
	Kreon Zephyr Laser Scanner Kreon Technologies	High precision laser line scanner. Integrates to any portable articulating CMM arm or most conventional CMMs. Provides for integrated touch probe.	\$60,000 to \$75,000

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Product/Service Solutions for 3D Measurement

Digitizers

Product	Description	Applications	Price Range
	FARO Arm FARO Technologies, Inc. <ul style="list-style-type: none"> • Quantum Arm • Platinum Arm • Titanium Arm • Advantage Arm • 4' to 12' Ranges 	Portable CMM with CAD based software for medium to large parts. Measurement, inspection and reverse engineering.	\$40,000 to \$85,000
	FARO Gage FARO Technologies, Inc. <ul style="list-style-type: none"> • 4' Arm 	The "personal CMM" for the machine shop. Gage software simulates common hand tools.	\$15,000 to \$20,000
	FARO Laser Tracker FARO Technologies, Inc. <ul style="list-style-type: none"> • Tracker • Tracker X • Tracker Xi • SoftCheck Tools 	Highly-accurate large volume measurement tool.	\$80,000 to \$120,000
	Immersion MicroScribe MX Immersion Corporation <ul style="list-style-type: none"> • MX • GX 	Robust, yet lightweight portable CMM solution.	\$4,000 to \$15,000

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Product/Service Solutions for 3D Measurement

Software – Point Cloud Processing

Product	Description	Applications	Price Range
	InnovMetric PolyWorks InnovMetric Software Inc. <ul style="list-style-type: none"> • Modeler • Inspector • Airfoil Gauge • Probing Package 	Polygonal modeling and point cloud to CAD comparison.	\$12,000 to \$30,000
	Geomagic Geomagic, Inc. <ul style="list-style-type: none"> • Studio • Qualify • Fashion 	Polygonal and NURBS modeling and point cloud to CAD comparison.	\$15,000 to \$30,000
	RapidForm INUS Technology, Inc. <ul style="list-style-type: none"> • XORedesign • XOScan • XOverifier 	RapidForm is designed to convert real-world data from 3D scanning devices into high quality, accurate and useful data for a variety of applications.	\$10,000 to \$30,000
	Pointools Pointools Ltd. <ul style="list-style-type: none"> • Pointools View Pro • Pointools 4 Rhino 	Point cloud, 3d model, drawing visualization and animation package that offers a compact set of tools.	\$600 to \$1250
	Able Software 3D-DOCTOR Able Software Corporation	3D-DOCTOR is an advanced 3D modeling, image processing, and measurement software for MRI, CT, PET, microscopy, scientific, and industrial 3D imaging applications.	\$2,500 to \$5,000

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Product	Description	Applications	Price Range
	VirtualGrid VRMesh VirtualGrid Company	Advanced free-form 3d modeling software for arbitrary triangle mesh creating and processing.	\$695

Software – Reverse Engineering and Inspection/Analysis

Product	Description	Applications	Price Range
	FARO CAM2 Measure X FARO Technologies, Inc.	CAD based software for inspection, tool building and reverse engineering.	\$10,000 to \$15,000
	McNeel Rhinoceros McNeel North America <ul style="list-style-type: none"> • Rhinoceros • RhinoMarine 	Rhino can create, edit, analyze, and translate NURBS curves, surfaces, and solids in Windows. Rhino also supports polygon meshes.	\$300 to \$2000
	Verisurf Verisurf Software, Inc.	Inspection/Analysis software for providing a common platform for product data management.	\$15,000 to \$20,000

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Product/Service Solutions for 3D Measurement

Technical Services

	On-Site	In-Office
Reverse Engineering Measurement, Scanning, Modeling	\$150 to \$250	\$100 to \$150
Part Inspection Measurement, Analysis, Reporting	\$150 to \$250	\$80 to \$150
Additional Technical Support For on-site projects that require 2 technicians.	\$75 to \$150	\$50 to \$100
Expert Engineering Consulting	\$200 to \$400	\$150 to \$250
Industrial Design	Call for Quote	
Rapid Prototyping		

1. *All prices are per hour, 4-hour minimum.*
2. *Travel expenses will be billed in addition to above rates.*
3. *The above rates assume a 9-hour workday. Time above and beyond 9 hours/day, and Saturdays and Sundays, will be billed at time and a half rate the hourly rate.*
4. *Work can be quoted on a fixed price basis, upon request, based on defined scope of work.*
5. *We accept credit card payments.*

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Product/Service Solutions for 3D Measurement

Training Services

In-Office at Direct Dimensions, Owings Mills, MD

	Price
ScanSys - Basic 3 Days for 2 People. Covers the fundamentals of scanning & 3D modeling.	**
FARO CAM2 - Basic Measurement 2 Days for 2 People. Covers basic measurement, alignments, CAD to part inspection, reporting and scanning.	**
FARO CAM2 - Advanced Measurement 2 Days for 2 People. Covers advanced alignments, Learn/Execute programming, & GD&T.	**
ScanWorks - Basic 1 Day for 2 People. Covers system installation, basic alignments in Caliper3D, data collection and data export.	**
PolyWorks Modeler & Inspector - Basic 4 Days for 2 People. Covers data import, sampling point clouds, alignment of multiple clouds, meshing, filling gaps in mesh, smoothing and decimating point cloud. Also covers comparison of point clouds to CAD models and reporting.	**
PolyWorks Modeler - Basic 2 Days for 2 People. Covers data import, sampling point clouds, alignment of multiple clouds, meshing, filling gaps in mesh, smoothing and decimating point cloud.	**
PolyWorks Inspector - Basic 2 Days for 2 People. Covers data import, sampling point clouds, alignment of multiple clouds, comparison of point clouds to CAD models and reporting.	**
Geomagic Studio & Qualify - Basic 3 Days for 2 People. Covers data import, sampling point clouds, alignment of multiple clouds, meshing, filling gaps in mesh, smoothing and decimating point cloud. Also covers comparison of point clouds to CAD models and reporting.	**
Geomagic Studio - Basic 2 Days for 2 People. Covers data import, sampling point clouds, alignment of multiple clouds, meshing, filling gaps in mesh, smoothing, and decimating model,	**
Geomagic Qualify - Basic 1 Day for 2 People. Covers data import, sampling point clouds, alignment of multiple clouds, comparison of point clouds to CAD models and reporting.	**

****Please contact Direct Dimensions for pricing to match your specific needs.**

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Product/Service Solutions for 3D Measurement

Training Services (Continued)

On-Site at Customer Facility

	Price
ScanSys - Basic 3 Days for up to 4 People. Covers the fundamentals of scanning & 3D modeling.	**
FARO CAM2 - Basic Measurement 2 Days for up to 4 People. Covers basic measurement, alignments, CAD to part inspection, reporting and scanning.	**
FARO CAM2 - Advanced Measurement 2 Days for up to 4 People. Covers advanced alignments, Learn/Execute programming, & GD&T.	**
PolyWorks Modeler & Inspector - Basic 4 Days for up to 4 People. Covers data import, sampling point clouds, alignment of multiple clouds, meshing, filling gaps in mesh, smoothing and decimating point cloud. Also covers comparison of point clouds to CAD models and reporting.	**
PolyWorks Modeler - Basic 2 Days for up to 4 People. Covers data import, sampling point clouds, alignment of multiple clouds, meshing, filling gaps in mesh, smoothing and decimating point cloud.	**
PolyWorks Inspector - Basic 2 Days for up to 4 People. Covers data import, sampling point clouds, alignment of multiple clouds, comparison of point clouds to CAD models and reporting.	**
Geomagic Studio & Qualify - Basic 3 Days for up to 4 People. Covers data import, sampling point clouds, alignment of multiple clouds, meshing, filling gaps in mesh, smoothing and decimating point cloud. Also covers comparison of point clouds to CAD models and reporting.	**
Geomagic Studio - Basic 2 Days for up to 4 People. Covers data import, sampling point clouds, alignment of multiple clouds, meshing, filling gaps in mesh, smoothing, and decimating model.	**
Geomagic Qualify - Basic 1 Day for up to 4 People. Covers data import, sampling point clouds, alignment of multiple clouds, comparison of point clouds to CAD models and reporting.	**

Travel expenses will be billed in addition to above rates for On-Site Training.

Custom Advanced Training Direct Dimensions can develop customized training courses to meet your specific needs, and can include multiple equipment and software interfaces.	**
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Product Maintenances

Product Description	Price
Konica Minolta Vivid 910 - Maintenance and Service Contract for 1 year extended	\$5,600
Konica Minolta Vivid 9i - Maintenance and Service Contract for 1 year extended	\$5,600
PolyWorks Modeler - Annual Support & Maintenance for 1 year extended	\$2,075
PolyWorks Inspector - Annual Support & Maintenance for 1 year extended	\$2,470
PolyWorks Modeler & Nurbs - Annual Support & Maintenance for 1 year extended	\$2,875
PolyWorks Modeler & Inspector - Annual Support & Maintenance for 1 year extended	\$3,600
PolyWorks Modeler, Inspector & Nurbs - Annual Support & Maintenance for 1 year extended	\$4,230
Geomagic Studio - Annual Maintenance for 1 year extended	\$3,000
Geomagic Qualify - Annual Maintenance for 1 year extended	\$1,000
Geomagic Studio & Qualify - Annual Maintenance for 1 year extended	\$4,000
Perceptron Laser Scanner - Warranty & Annual Calibration for 1 year extended	\$5,650
FARO Arm - Annual Maintenance, Warranty, and Calibration for 1 year extended	\$3,100

*All pricing subject to change at any time and comes directly from OEM.
All equipment maintenance, upgrades, and repairs direct from OEM.
Direct Dimensions, Inc. is your first point of contact.*

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