CyberGage360™
3D Scanning System

3D SCANNERS

Powered by MRS Technology

Unprecedented speed, accuracy and one-button simplicity for non-contact automated 3D scanning inspection.

Complete 360° 3D scan and inspection report in less than 3 minutes.

High-Precision Accuracy with MRS Technology

- Generates full 360° automated scan with accuracy NIST traceable to +/- 25µm
- Incorporates CyberOptics' proprietary 3D Multi-Reflection Suppression (MRS) technology that inhibits measurement distortions for a highly accurate metrology grade scan

Easy-to-Use with One-Button Simplicity

- Simplifies scanning with one-button automation
- Provides factory-friendly operation with minimal training
- Generates reports comparing scan data to CAD models or 'golden' example
- Speeds part program selection with Bar Code Part ID
- Programs off-line with pre-defined inspection templates
- Eliminates costly inspection gages with fixtureless design
- Offers quick and simple field recalibration

Fast Scanning in Less than 3 Minutes

- Quickly generates a highly precise full 360° automated 3D surface scan of complex shaped parts in less than 3 minutes
- Facilitates near-production line high-volume scanning and high speed throughput

CyberGage360 lowers Cost of Quality and shortens time-to-market by dramatically speeding up In-Process Inspection and/or Incoming/Outgoing Parts Inspections.

Save Time. Save Expense. Improve Yields.

LASERDESIGN™
A CyberOptics Company

3D Scans – Simple as...

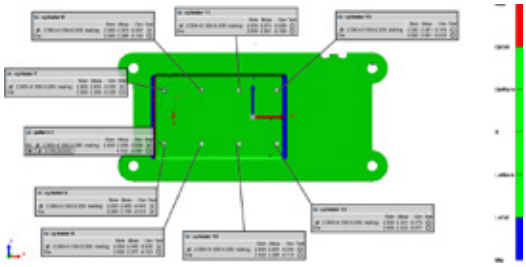
1. **Open the door**
2. **Place the part**
3. **Press the button**

Designed for use in general purpose metrology, the CyberGage360 has a range of potential industrial applications from automotive to aerospace, where high accuracy and high speed throughput are important.

Specifications

Work Volume	200mm diameter x 100mm high cylinder (8" diameter x 4" high)
System Accuracy	25µm
Resolution	50µm
Speed	8 million points/part pose, with 8 part poses (every 45°) scanned in < 3 minutes
CDRH Safety	Eye safe - no protection needed
System Controllers Embedded	High-performance PC included
Environmental Temperature	Temperature ambient = 20°C +/- 3°C (68.5°F +/- 5°F) to maintain calibrated performance
Operating Environment	Humidity 50% +/- 30%
Weight of Part	2.0 kg max (4.4 lbs.)
Data Output Formats	STL, PLY, OBJ, ASC
Electrical Requirements	110-120V+/-10% 1 phase/ 50-60hz+/-3.5%
Included with System	PC controller built in, Polyworks Inspector inspection reporting software with: 1 year maintenance/updates/support, operation manual, maintenance manual, and training at factory (Minneapolis or onsite option).
Warranty	1-year warranty (hardware, software, parts, labor, workmanship)
Warranty Notes	Request pricing from Laser Design sales engineer

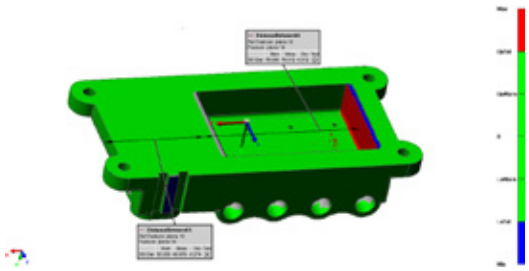
Output Report Examples



Feature Table

Units	Millimeters
Coordinate System	world
Data Alignments	drf - A B C

Name	Control		Nom	Meas	Tol	Dev	Test	Out Tol
cylinder 6	Ø 2.500+0.150/-0.250	mating	2.500	2.055	+0.150/-0.250	-0.445	Fail	-0.195
	Diameter		2.500	2.190	+0.150/-0.250	-0.310	Fail	-0.060
cylinder 7	Ø 2.500+0.150/-0.250	mating	2.500	2.064	+0.150/-0.250	-0.436	Fail	-0.186
	Diameter		2.500	2.265	+0.150/-0.250	-0.235	Pass	
cylinder 8	Ø 2.500+0.150/-0.250	mating	2.500	2.245	+0.150/-0.250	-0.255	Fail	-0.005
	Diameter		2.500	2.377	+0.150/-0.250	-0.123	Pass	
cylinder 9	Ø 2.500+0.150/-0.250	mating	2.500	2.203	+0.150/-0.250	-0.297	Fail	-0.047



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Name	Control	Nom	Meas	Tol	Dev	Test	Out Tol
DistanceBetween65	3D Distance	52.250	49.976	±0.500	-2.274	Fail	-1.774
DistanceBetween66	3D Distance	78.000	78.012	±0.500	0.012	Pass	

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Contact Laser Design today for more information
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