

# CyberGage360™ 3D Scanning System

3D SCANNERS



- **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 +/- 10µm
- 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

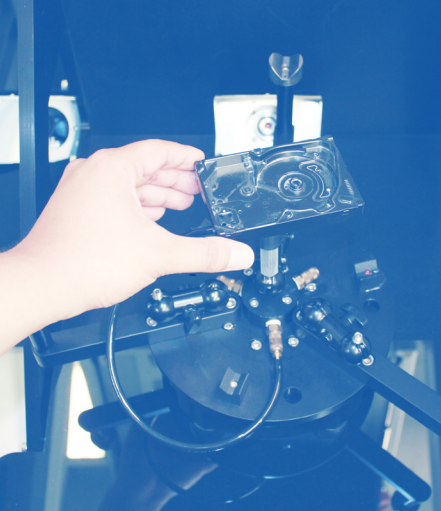
- Quickly generates a highly precise full 360° automated 3D surface scan of complex shaped parts in less than 3 minutes
- Facilitates near-production line high-volume scanning and high speed throughput

**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.**

**CYBEROPTICS®**



# 3D Scans – Simple as...

1

Open the door

2

Place the part

3

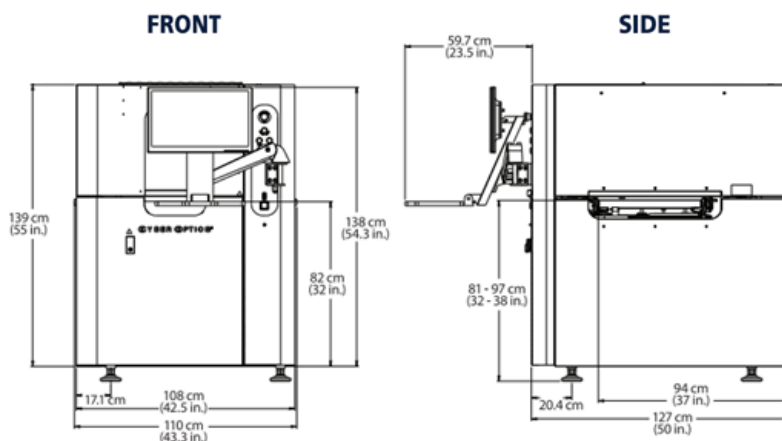
Press the button

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.

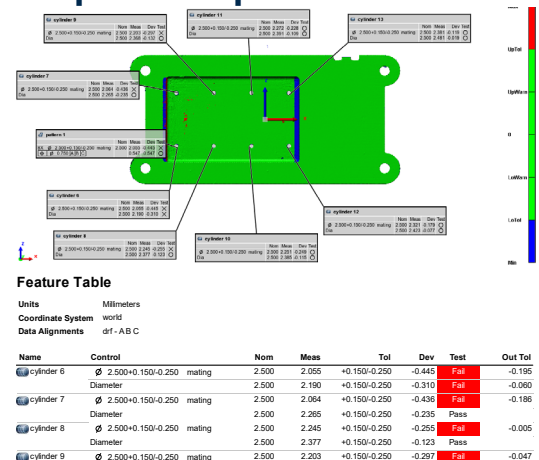
## Specifications

|                                    |   |
|------------------------------------|---|
| <b>Work Volume</b>                 | 200mm diameter x 100mm high cylinder (8" diameter x 4" high)  |
| <b>Sensor Technology</b>           | Patented MRS technology with structured blue light  |
| <b>System Volumetric Accuracy</b>  | 10 $\mu$ m; 0.010mm +L/10000mm (ISO 10360) See Accuracy Statement for CyberGage360 report available at <a href="http://CyberOptics.com/CyberGage360">CyberOptics.com/CyberGage360</a>                             |
| <b>Repeatability</b>               | 5 $\mu$ m; 0.005mm/0.00020" See Accuracy Statement for CyberGage360 report available at <a href="http://CyberOptics.com/CyberGage360">CyberOptics.com/CyberGage360</a>  |
| <b>Speed</b>                       | Up to 16 million points/part/ pose. Typical cycle time < 3 minutes  |
| <b>CDRH Safety</b>                 | Eye safe - no protection needed   |
| <b>System Controllers Embedded</b> | High-performance PC included  |
| <b>Environmental Temperature</b>   | Temperature ambient = 20°C +/- 3°C (68.5°F +/- 5°F) to maintain calibrated performance  |
| <b>Operating Environment</b>       | Humidity 50% +/- 30%  |
| <b>Weight of Part</b>              | 2.0 kg max (4.4 lbs.)   |
| <b>Data Output Formats</b>         | STL, PLY, OBJ, ASC  |
| <b>Electrical Requirements</b>     | 110-120V+/-10% 1 phase/ 50-60hz+/-3.5%  |
| <b>Included with System</b>        | 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). |
| <b>Warranty</b>                    | 1-year warranty (hardware, software, parts, labor, workmanship)   |

## Dimensions



## Output Report Example



**CYBEROPTICS**

Contact CyberOptics today for more information

800.366.9131 or 763.542.5000 | [CSsales@cyberoptics.com](mailto:CSsales@cyberoptics.com) | [www.cyberoptics.com](http://www.cyberoptics.com)

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