

3D Measurement Case Study

Test Report: Compact C210

About Polyga

Polyga is a developer of 3D scanners and mesh processing software based in Vancouver, Canada. We have more than 10 years of experience building structured light 3D scanners and software that meet complex 3D imaging requirements. Our line of 3D scanners are a trusted brand of 3D imaging solutions used worldwide for a variety of industrial applications.

Products & Technology

All Polyga 3D scanners use structured-light technology for capturing high-resolution digital 3D scans from real world objects. These systems are great for companies, manufacturers, academic institutions, visual effect studios, and research labs that need 3D scan data for visualization and measurement applications including:

- 3D modeling
- documentation/archiving
- reverse engineering
- scientific measurement
- computer-aided inspection
- rapid prototyping/3D printing



Scanning Overview

Scanners:

Compact C210

Introduction:

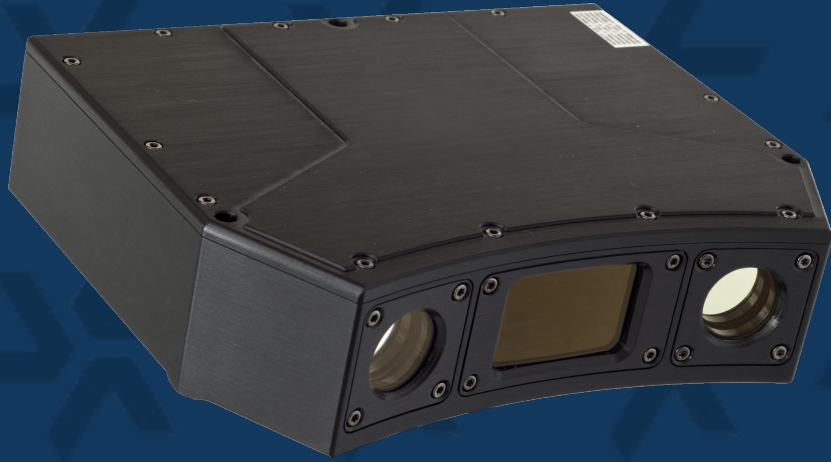
The purpose of this sample test was to perform a demonstration to capture the dimensions of various objects. Prior to scanning, we placed white modelling clay to create unique geometry around the objects to aid with alignment.

Scan Processing Results:

The 3D model rusted pipe consists of 7 individual scans.

A 1 inch gauge block was scanned using our HDI C210 system mounted on a large tripod. Two sides of the gauge block were scanned, then aligned and measured using the coordinate tools within Flexscan3D. Modelling clay was used on the object to facilitate alignment by adding geometry. Additionally, the object was sprayed with developer spray to reduce surface reflection.

Equipment Used

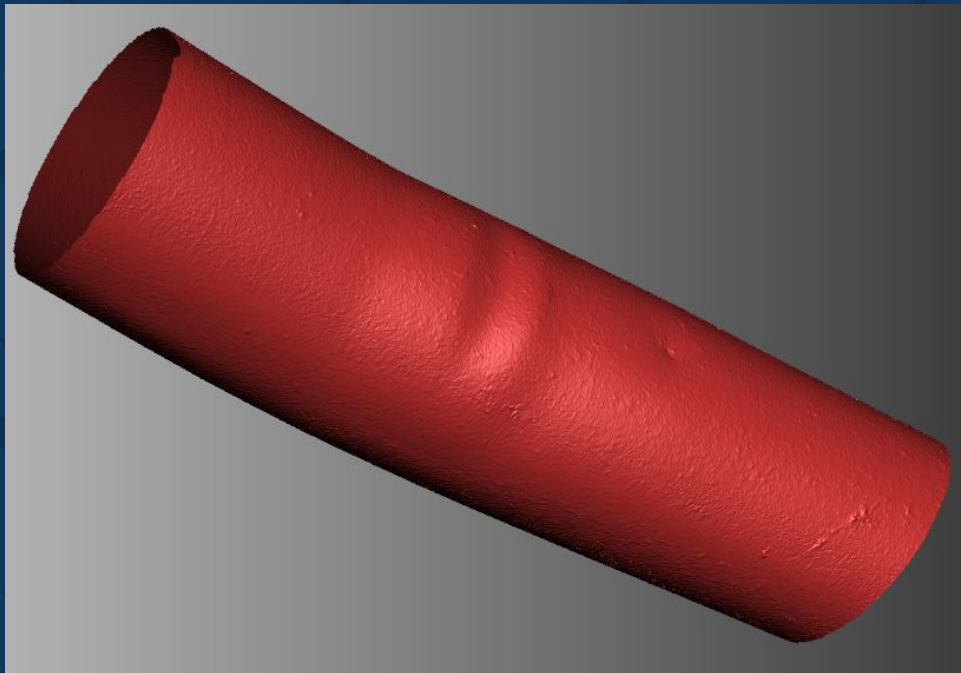


Compact C210



Lightweight Rotary Table

Scan Results



[Click Here to Download Samples](#)

Scan Results

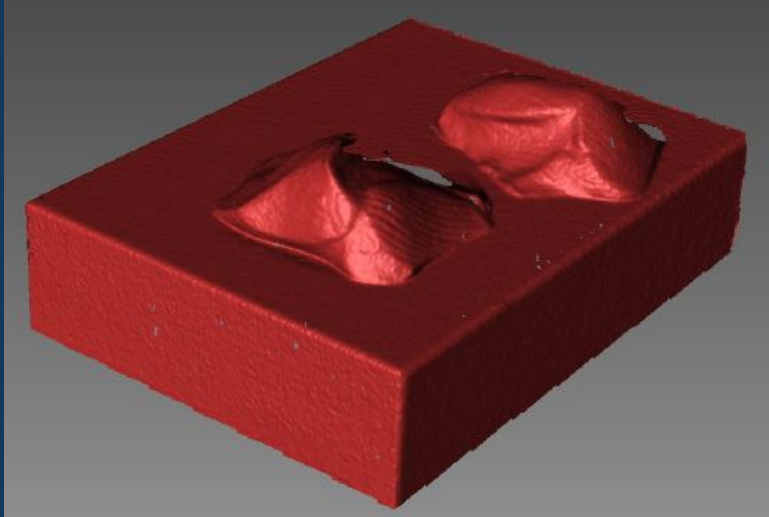


Scan Results



The rusted pipe has a tapered width. Below is an image to show the width of the pipe (~35.6mm).

Scan Results



Actual Measurement	25.40 mm
Object Scan Measurement	25.37 mm

[Click Here to Download Samples](#)

Contact

Our Team Looks Forward To Speaking With You Soon!

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