Compact 3D Scanners
Get Industrial Quality Results, Every Time.

The Polyga Compact professional 3D scanners are factory calibrated for repeatable measurement accuracy you can trust. Start 3D scanning in no time.

These desktop 3D scanners are ready to capture 3D scans with millions of surface measurement points accurately only minutes after setup. They take digital 3D scans of real-world objects with the click of a button, saving you time and improving on productivity.

contact@polyga.com  www.polyga.com
The Compact series is a non-contact measurement solution using LED structured-light technology. The system provides full-field scanning at an ultrafast scan speed of 1 second.

**FULL FIELD SCANNING**

**VERSATILE AND READY TO GO**

Polyga Compact desktop 3D scanners are slim and portable. The systems work great as standalone desktop 3D scanners. They can also be easily integrated into systems or embedded into devices. They are easy to take along for travelling. Put one in your suitcase or travel case and you are ready to go.

**IMPRESSIVE SCAN QUALITY**

With the click of a button, the Compact series of desktop 3D scanner captures industrial quality 3D scans containing 1 to 5 million 3D data points *(depending on the model)* from real-world objects. Designed for demanding industry applications, you can depend on them for accurate and repeatable results.

**BUILT IN POST-PROCESSING CAPABILITIES**

Process scan data at the capturing stage with FlexScan3D. The 3D scanning software has aligning, merging, and hole filling capabilities to transform 3D scans into a complete digital 3D model. Export the output for use in downstream applications including 3D visualization, reverse engineering, and quality inspection.

Tom O’Mahoney is a researcher at Anglia Ruskin University. He uses the Polyga Compact 3D scanner for cultural heritage, physical anthropology, and palaeontology.
Polyga Compact
Professional 3D Scanner Models

**MODEL L**

Large Field of View

Field of View (mm):
265 x 225 – 375 x 345

**MODEL C**

Industrial

Field of View (mm):
- C210: 98 x 71 – 154 x 100
- C506: 45 x 27 – 45 x 30
- C504: 13.2 x 12.1 – 15.0 x 13.0

IP67 Rated Housing
Dust proof and water resistant

Durable Exterior
Solid aluminum body

Scan Small Objects

**MODEL S**

Entry-Level

Compact S1
Affordable 3D Scanner

Delivering high-quality results rarely seen in an entry-level professional system

Field of View (mm):
65 x 58 – 90 x 80
### COMPACT L6

- **Cameras**: 2 x 3 monochrome megapixel cameras
- **Dimension (mm)**: 55 x 129 x 400
- **Weight (kg)**: 2
- **Scanning Software**: FlexScan3D
- **Scan Speed (milliseconds)**: 1200
- **Depth of Field (mm)**: 300
- **Field of View (mm)**: 265 x 225 – 375 x 345
- **Resolution**:
  - Average Points: 3 million per scan
  - Average Polygons: 6 million per scan
  - Point to Point Distance (mm): 0.18
  - Accuracy: Up to 80 microns
  - Clearance Distance (mm): 680
  - Geometry Formats: PLY, OBJ, STL, ASC, FBX, 3D3
- **Minimum Computer Requirements**: Windows 7 (64-bit) Operating System, Quad-core Intel 2 GHz CPU or better, 4 GB Memory or greater, 512 MB Video Card, Free disk space 250 GB Hard Drive or more
### COMPACT C210
- **Cameras**: 2 x 2 monochrome megapixel cameras
- **Dimension (mm)**: 49 x 146 x 190
- **Weight (kg)**: 1.7
- **Scanning Software**: FlexScan3D
- **Scan Speed (milliseconds)**: 250
- **Depth of Field (mm)**: 110
- **Field of View (mm)**: 98 x 71 – 154 x 100
- **Resolution**
  - Average Points: 2 million per scan
  - Average Polygons: 4 million per scan
  - Point to Point Distance (mm): 0.06 – 0.09
  - Accuracy: Up to 35 microns
  - Clearance Distance: 164
  - Geometry Formats: PLY, OBJ, STL, ASC, FBX, 3D3
- **Minimum Computer Requirements**: Windows 7 (64-bit) Operating System, Quad-core Intel 2 GHz CPU or better, 4 GB Memory or greater, 512 MB Video Card, Free disk space 250 GB Hard Drive or more

### COMPACT C506
- **Cameras**: 2 x 5 monochrome megapixel cameras
- **Dimension (mm)**: 49 x 136 x 170
- **Weight (kg)**: 1.52
- **Scanning Software**: FlexScan3D
- **Scan Speed (milliseconds)**: 333
- **Depth of Field (mm)**: 25
- **Field of View (mm)**: 45 x 27 – 45 x 30
- **Resolution**
  - Average Points: 5 million per scan
  - Average Polygons: 10 million per scan
  - Point to Point Distance (mm): 0.020 – 0.025
  - Accuracy: Up to 12 microns
  - Clearance Distance: 87
- **Geometry Formats**: PLY, OBJ, STL, ASC, FBX, 3D3

### COMPACT C504
- **Cameras**: 2 x 5 monochrome megapixel cameras
- **Dimension (mm)**: 49 x 152 x 178
- **Weight (kg)**: 1.77
- **Scanning Software**: FlexScan3D
- **Scan Speed (milliseconds)**: 166
- **Depth of Field (mm)**: 7
- **Field of View (mm)**: 13.2 x 12.1 – 15.0 x 13.0
- **Resolution**
  - Average Points: 5 million per scan
  - Average Polygons: 10 million per scan
  - Point to Point Distance (mm): 0.0067 – 0.0071
  - Accuracy: Up to 6 microns
  - Clearance Distance: 51.5
- **Geometry Formats**: PLY, OBJ, STL, ASC, FBX, 3D3

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**Contact**: contact@polyga.com  
**Website**: www.polyga.com
DO IT ALL IN FLEXSCAN3D

All Polyga Compact 3D scanners are powered by FlexScan3D software. It’s all you need to be efficient at 3D modeling:

- Captures 3D scans
- Cleans up scan data using advanced post-processing capabilities
- Merges 3D scans into a full digital 3D model
- Deviation analysis provides mesh-to-mesh comparison to determine accuracy level and for benchmarking

AUTOMATING THE 3D SCANNING PROCESS

Eliminate the tedious process of manually scanning an object. Use a rotary turntable to revolve the scan target in 360 degrees. The Polyga Compact 3D scanners capture the scans in minutes and merge them together to create a full digital 3D model.

Automation is a time-saver, especially when 3D scanning similar objects in volume. Reduce manual work and get amazing results every time.