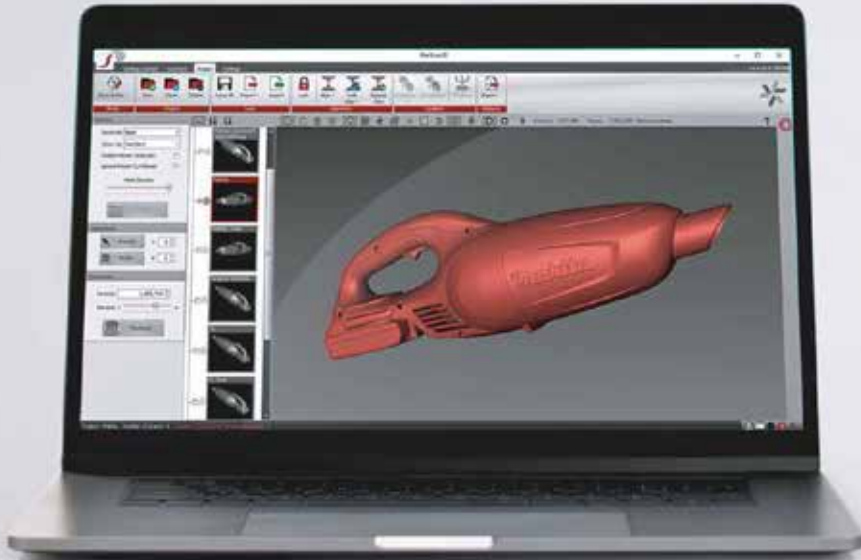# polyga

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.

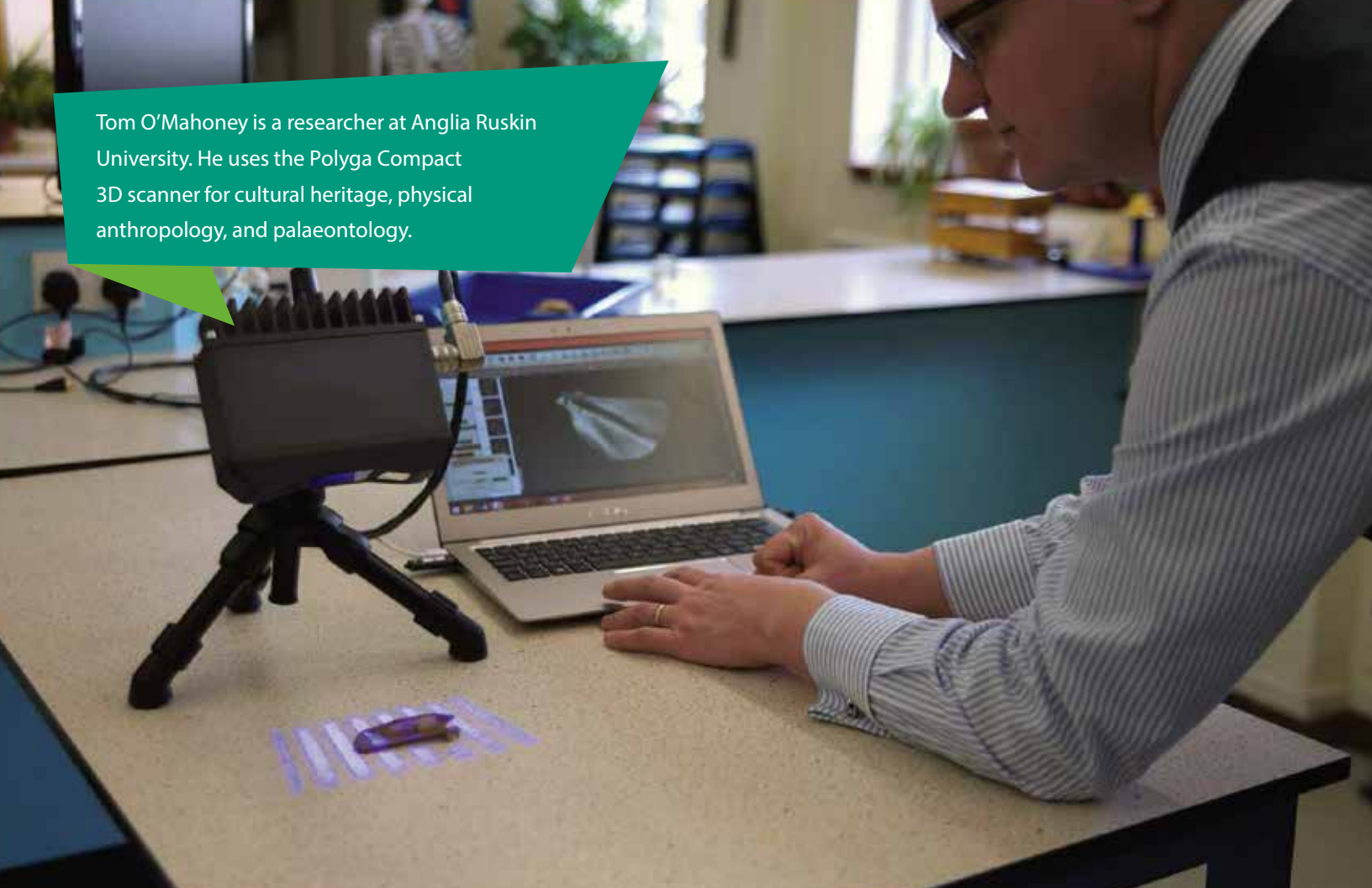**PLUG IN THE SYSTEM**

INSTALL THE SOFTWARE
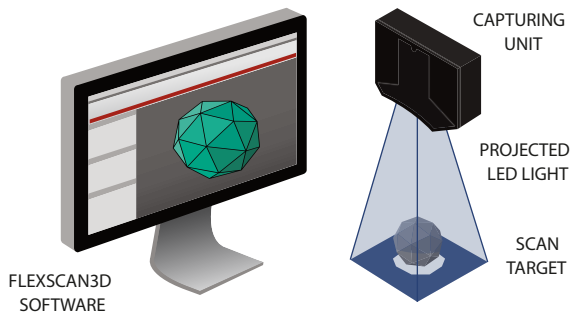
READY FOR SCANNING

FLEXSCAN3D

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.

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COMPETENCE IN 3D SCANNING

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

FULL FIELD SCANNING

FLEXSCAN3D SOFTWARE

CAPTURING UNIT

PROJECTED LED LIGHT

SCAN TARGET

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.

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.
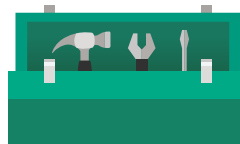
VERSATILE AND READY TO GO

Polyga Compact deskop 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.

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.

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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

IP67 Rated Housing
Dust proof and water resistant

Durable Exterior
Solid aluminum body

Scan Small Objects

C210
Field of View (mm):
98 x 71 – 154 x 100

C506
Field of View (mm):
45 x 27 – 45 x 30

C504
Field of View (mm):
13.2 x 12.1 - 15.0 x 13.0

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
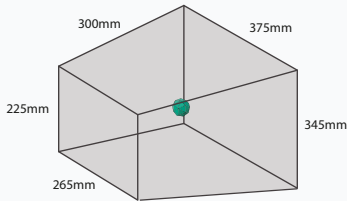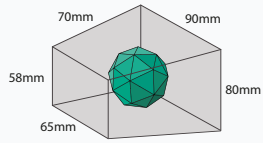
Handheld Vacuum Cleaner
(Polyga Compact L6)

Bicycle Derailleur
(Polyga Compact S1)

	COMPACT L6	COMPACT S1 NEW
Cameras	2 x 3 monochrome megapixel cameras	2 x 1.3 monochrome megapixel cameras
Dimension (mm)	55 x 129 x 400	58 x 270 x 158
Weight (kg)	2	2
Scanning Software	FlexScan3D	FlexScan3D
Scan Speed (milliseconds)	1200	500
Depth of Field (mm)	300	70
Field of View (mm)	265 x 225 – 375 x 345	65 x 58 – 90 x 80

Field of View diagrams:

L6: 300mm, 375mm, 225mm, 345mm, 265mm

S1: 70mm, 90mm, 58mm, 80mm, 65mm

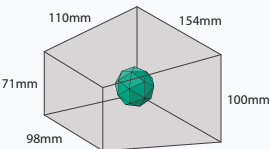| Resolution		
Average Points	3 million per scan	1.2 million per scan
Average Polygons	6 million per scan	2.4 million per scan
Point to Point Distance (mm)	0.18	0.07
Accuracy	Up to 80 microns	Up to 40 microns
Clearance Distance (mm)	680	220
Geometry Formats	PLY, OBJ, STL, ASC, FBX, 3D3	
Minimum Computer 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	

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Dental Mold
(Polyga Compact C210)

Computer Memory Card
(Polyga Compact C506)

Metal Drill Bit Tip
(Polyga Compact C504)

	COMPACT C210	COMPACT C506	COMPACT C504
Cameras	2 x 2 monochrome megapixel cameras	2 x 5 monochrome megapixel cameras	2 x 5 monochrome megapixel cameras
Dimension (mm)	49 x 146 x 190	49 x 136 x 170	49 x 152 x 178
Weight (kg)	1.7	1.52	1.77
Scanning Software	FlexScan3D	FlexScan3D	FlexScan3D
Scan Speed (milliseconds)	250	333	166
Depth of Field (mm)	110	25	7
Field of View (mm)	98 x 71 – 154 x 100	45 x 27 – 45 x 30	13.2 x 12.1 - 15.0 x 13.0

C210: 110mm, 154mm, 71mm, 100mm, 98mm
C506: 25mm, 45mm, 27mm, 30mm, 45mm
C504: 7mm, 15mm, 12.1mm, 13mm, 13.2mm

Resolution			
Average Points	2 million per scan	5 million per scan	5 million per scan
Average Polygons	4 million per scan	10 million per scan	10 million per scan
Point to Point Distance (mm)	0.06 – 0.09	0.020 – 0.025	0.0067- 0.0071
Accuracy	Up to 35 microns	Up to 12 microns	Up to 6 microns
Clearance Distance (mm)	164	87	51.5
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	

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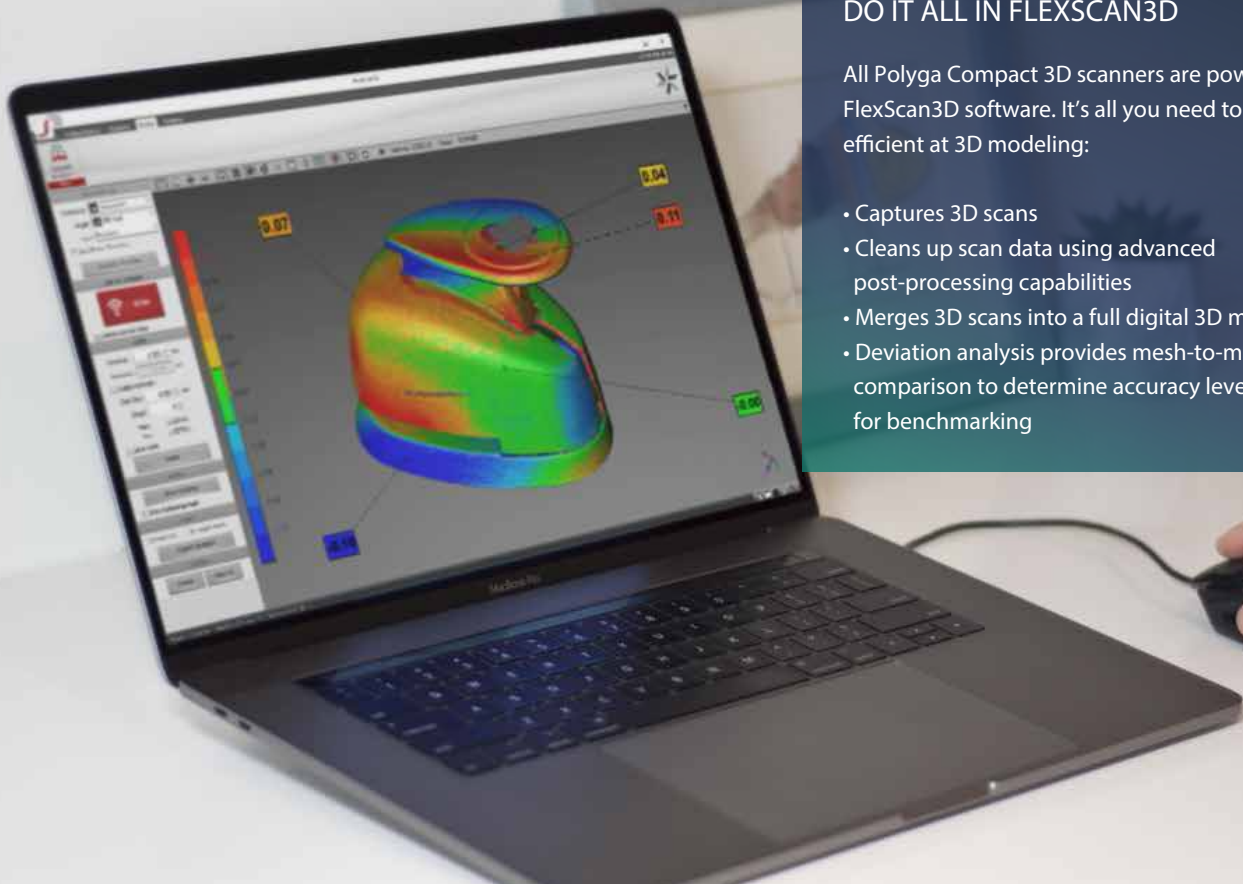
Powerful 3D Scanning Systems

360° 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.

POLYGA-COMPACT-BROCHURE-MAR2020

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

Authorized Reseller:

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