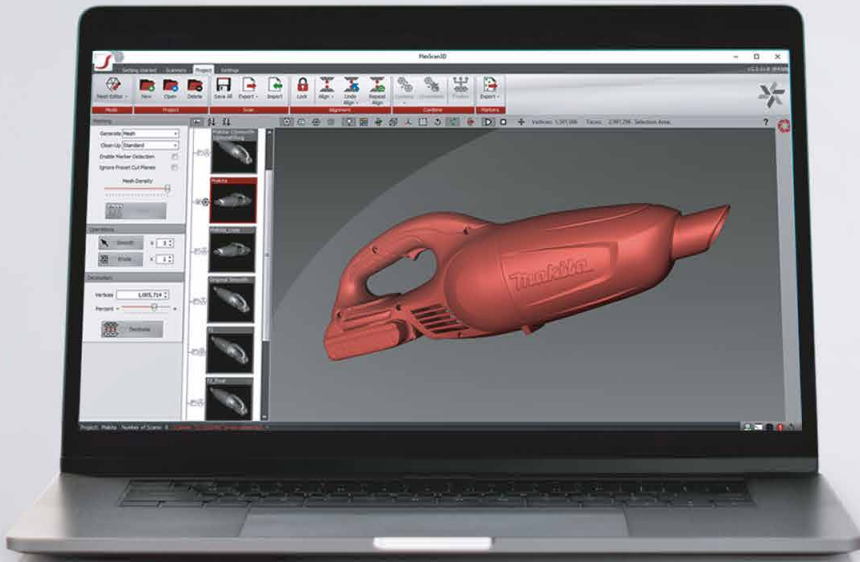# HDI
COMPACT

Plug and Play 3D Scanner
Get Industrial Quality Results, Every Time.

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

PLUG IN THE SYSTEM

FLEXSCAN3D
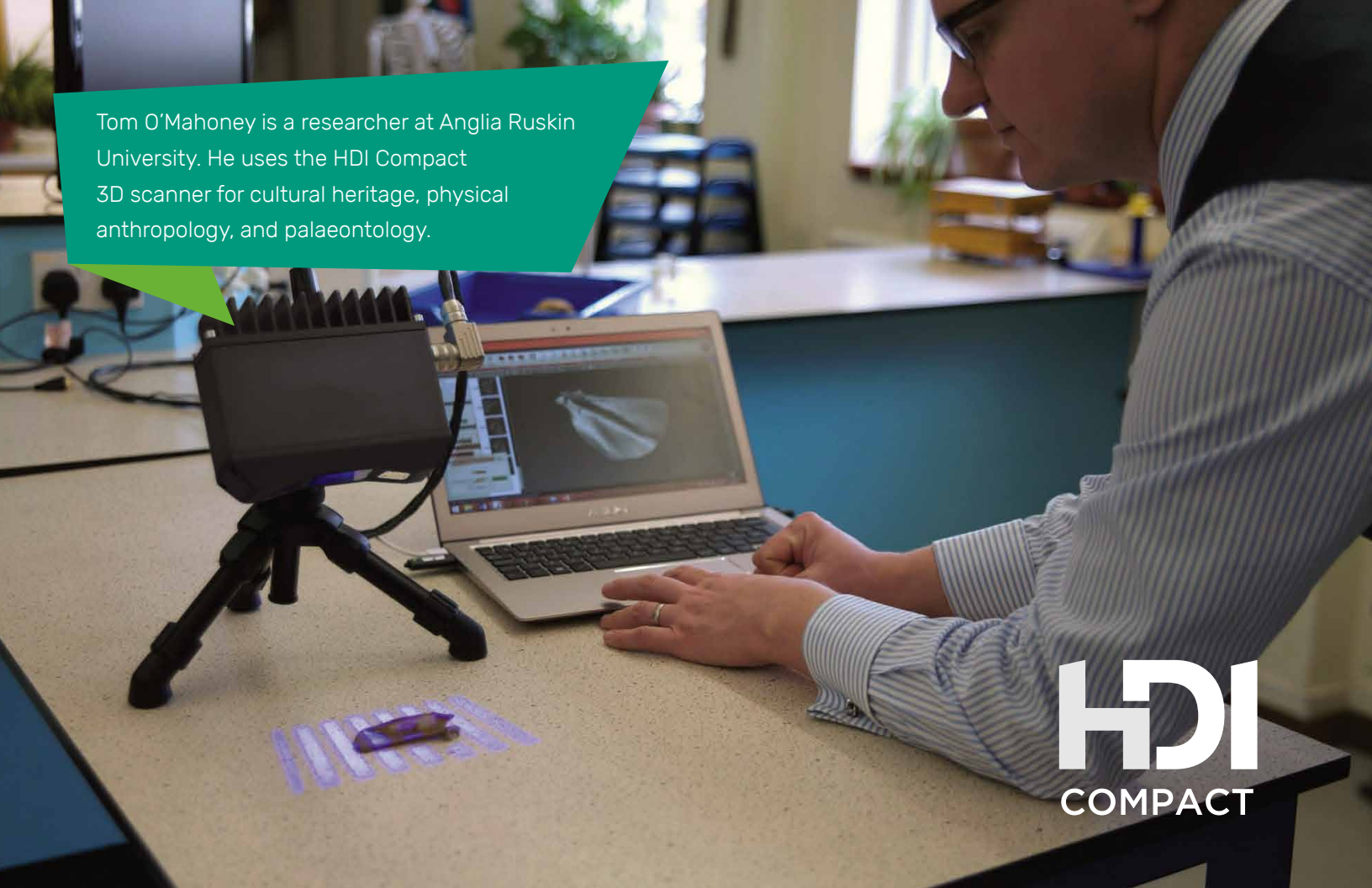
INSTALL THE SOFTWARE

READY FOR SCANNING

HDI Compact 3D scanners are ready to capture 3D scans with millions of surface measurement points accurately only minutes after setup. They take digital 3D scans from real-world objects with the click of a button, saving you time and improving on productivity.
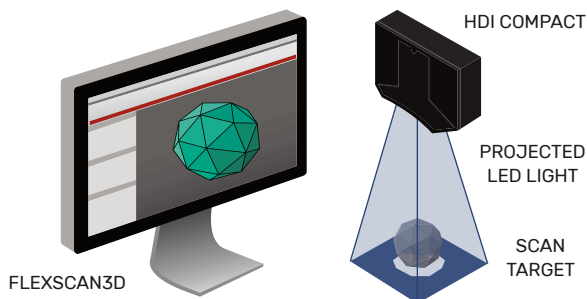
Tom O'Mahoney is a researcher at Anglia Ruskin University. He uses the HDI Compact 3D scanner for cultural heritage, physical anthropology, and palaeontology.

HDI
COMPACT

FULL FIELD SCANNING

HDI COMPACT

PROJECTED
LED LIGHT

SCAN
TARGET

FLEXSCAN3D

The HDI Compact is a non-contact measurement solution using LED structured-light technology. The system provides full-field scanning at an ultrafast scan speed of a fraction of a second.

IMPRESSIVE SCAN QUALITY

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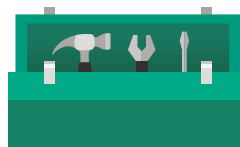
VERSATILE AND READY TO GO

HDI Compact is slim and portable

The 3D scanner works great as a standalone desktop 3D scanner, integrating into systems, or embedding into devices. It's easy to take along for travelling. Put it in your suitcase or travel case and you're 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.

HDI 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 **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

HDI COMPACT S1
Affordable 3D Scanner

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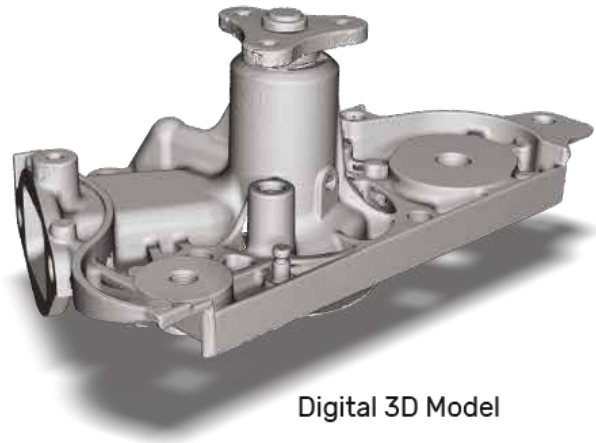in an entry-level professional system

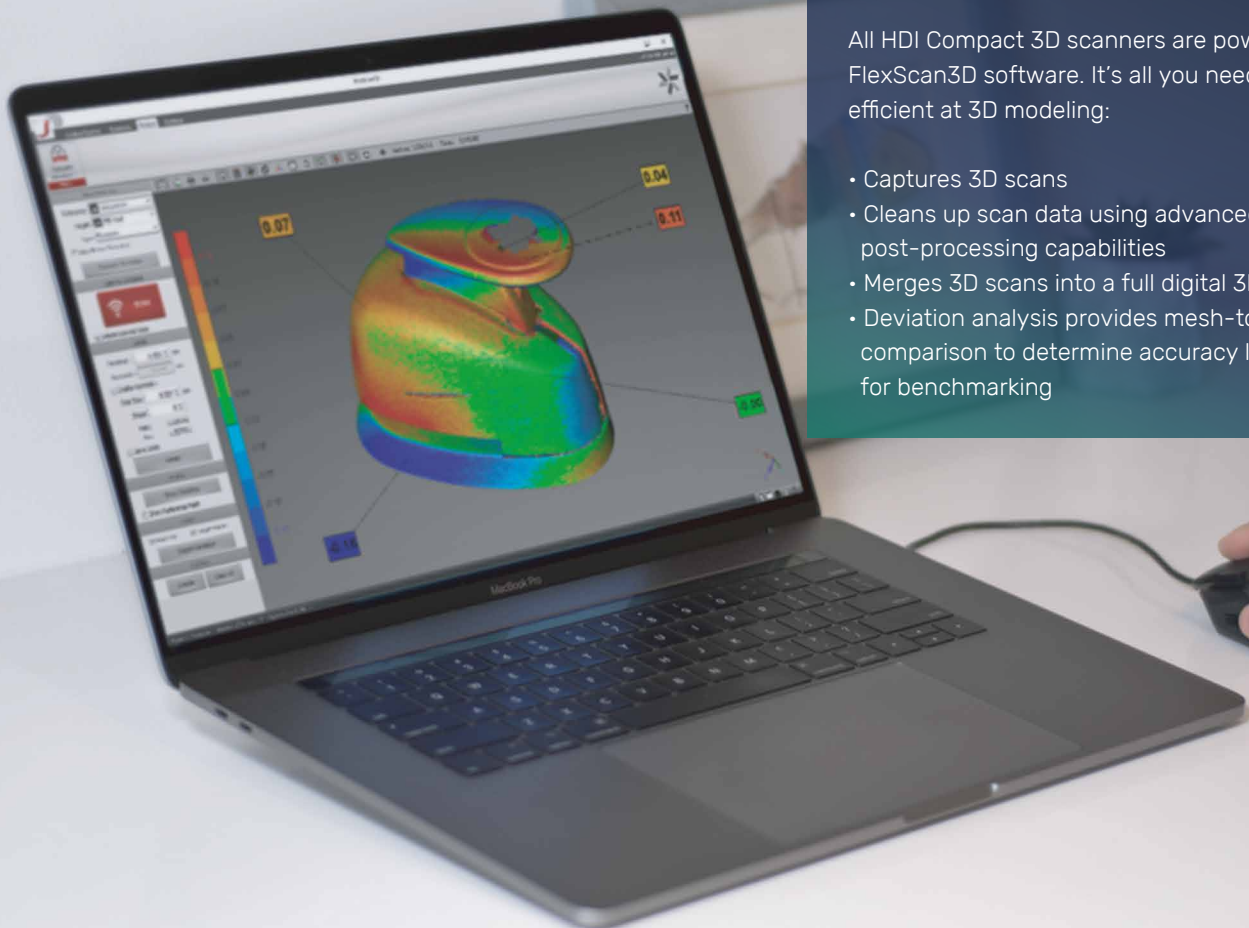**Field of View (mm):**
65 x 58 – 90 x 80

Powerful 3D Scanning Systems

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 HDI Compact 3D scanners capture the scans in minutes and merge them together to create a full digital 3D model.
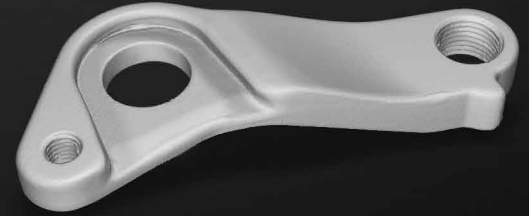
360°

Digital 3D Model

DO IT ALL IN FLEXSCAN3D

All HDI 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
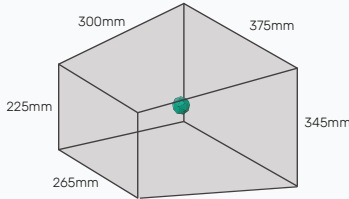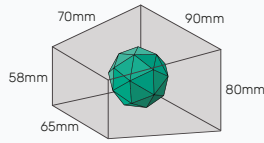• Deviation analysis provides mesh-to-mesh comparison to determine accuracy level and for benchmarking

Handheld Vacuum Cleaner
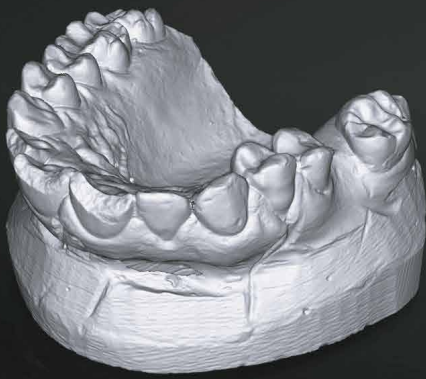(HDI Compact L6)

Bicycle Derailleur
(HDI Compact S1)

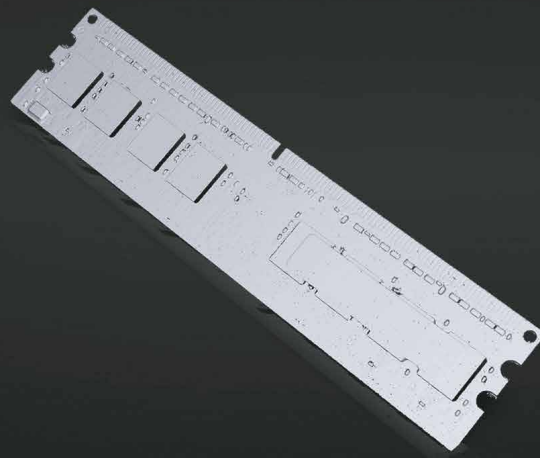|	HDI COMPACT L6	HDI COMPACT S1 NEW
Cameras	2 x 3 monochrome megapixel cameras	2 x 1.3 monochrome megapixel cameras
Dimension (mm)	55 x 129 x 400	58 x 270 x 158
Weight (kg)	2	2
Scanning Software	FlexScan3D	FlexScan3D
Scan Speed (milliseconds)	1200	500
Depth of Field (mm)	300	70
Field of View (mm)	265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

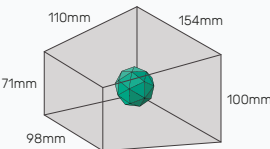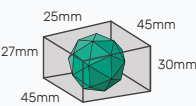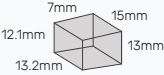| Resolution		
Average Points	3 million per scan	1.2 million per scan
Average Polygons	6 million per scan	2.4 million per scan
Point to Point Distance (mm)	0.18	0.07
Accuracy	Up to 50 microns	Up to 40 microns
Clearance Distance (mm)	680	220
Geometry Formats	PLY, OBJ, STL, ASC, FBX, 3D3	
Minimum Computer 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	

Dental Mold   Computer Memory Card   Metal Drill Bit Tip

	HDI COMPACT C210	HDI COMPACT C506	HDI 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

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	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	