



# POLYGA CARBON 3D SCANNER

## Built for Flexible Performance. Designed for Portability.

The Polyga Carbon is a crossover 3D scanning system that can easily adapt to different scanning requirements, while still being lightweight and portable to take on off-site projects. It uses structured-light LED technology and two industrial-grade machine vision cameras to deliver professional quality 3D scanning results.

### CARBON FIBER MOUNTING SYSTEM



At the core of the Polyga Carbon is a custom molded carbon fiber frame. The mount makes the entire system super robust while being unbelievably lightweight at just 4.18 lbs (1.9 kg).

### DELIVERING PROFESSIONAL RESULTS

The system generates over three million points per scan at an accuracy of up to 35 microns per scan (0.0014") for a 225mm diagonal field of view.

### FLEXIBLE SCANNING IN ONE PACKAGE

The Polyga Carbon gives you the flexibility you need to scan objects of various sizes –all in one system. Adjust the scanner's diagonal field of view from 225mm to 600mm using two preset camera mounting positions on the carbon fiber frame.



### SCAN WHEREVER YOU GO



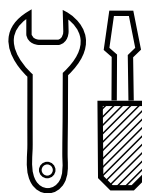
For maximum portability, the scanner comes with its own travel case. All the components fit nicely inside for added protection. It's crushproof, watertight, and dustproof.

### LONG LASTING



The Polyga Carbon uses a LED light projector with a long service life. It emits minimal heat which reduces scan distortion for repeatable 3D scanning results.

### POWERFUL BUILT IN POST-PROCESSING AND INSPECTION TOOLS



The Polyga Carbon comes with FlexScan3D software, a powerful scanning engine. It has aligning, merging, and hole filling capabilities to transform 3D scans into a complete digital 3D model. It also comes with basic inspection tools for deviation analysis.



Motorbike Crankcase

## TECHNICAL SPECIFICATIONS

<b>Cameras</b>	2 x 3 megapixel monochrome USB 3.0 cameras
<b>Dimension (cm)</b>	13 x 41 x 12
<b>Scanning Software</b>	FlexScan3D
<b>Scan Speed</b>	1.2 seconds per scan
<b>Field of View (FOV)</b> Adjustable to scan objects of different shapes and sizes	Preset positions on the carbon fiber mount: 225mm, 600mm diagonal
<b>Resolution</b>	
Average Points	3+ million per scan
Average Polygons	6+ million per scan
Point to Point Distance	225mm FOV: 0.101mm 600mm FOV: 0.362mm
<b>Accuracy</b>	225mm FOV: 35µm (0.0014") 600mm FOV: 50µm (0.0020")
<b>Standoff</b>	225mm FOV: 280mm 600mm FOV: 775mm
<b>Geometry Formats</b>	PLY, OBJ, STL, ASC, FBX, 3D3
<b>Computer Requirements</b>	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