



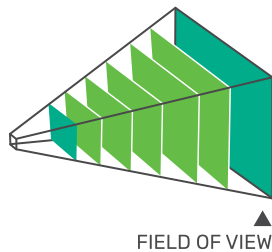
# POLYGA CARBONXL 3D SCANNER

## Get The Most Flexibility and Control In A 3D Scanning System

Polyga CarbonXL 3D scanner was developed out of a growing need for a professional system that delivers more flexibility and control. The new model has a wider adjustable field of view and a brighter projector compared to the original Carbon model. The CarbonXL is what you need if you are looking to scan a variety of objects of different sizes. Do it all with one system.

### ADJUSTABLE FIELD OF VIEW

The Polyga CarbonXL has a flexible slider mount to create a diagonal field of view ranging from 70mm to 800mm. Place two cameras on the mount to create any field of view you want.

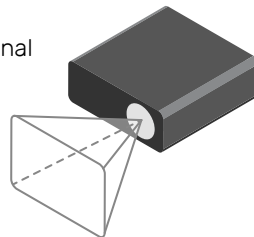


### DELIVERING PROFESSIONAL RESULTS

The system generates approximately 4.9 million points per scan at an accuracy of up to 25 microns for a 70mm field of view.

### BRIGHTER PROJECTION

The Polyga CarbonXL uses a projector with more lumens compared to the original model to achieve higher quality results. The system can scan farther away and scan darker objects much easier.



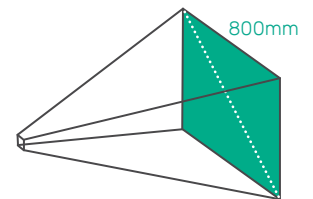
### PACK IT TO GO



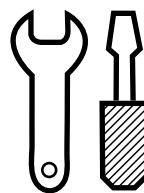
The 3D scanner's detachable railing system makes it easy to disassemble for storage or traveling to an off-site location.

### LARGE FIELD OF VIEW

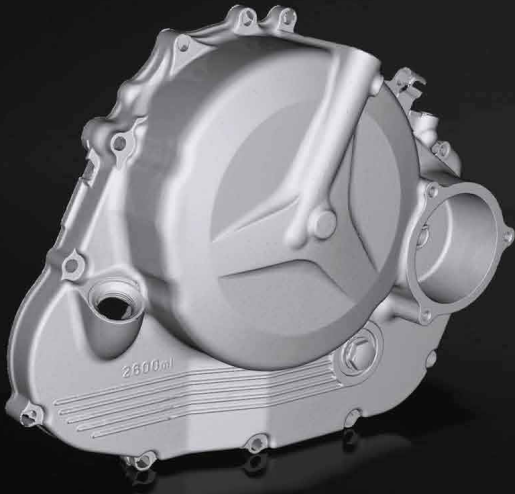
The CarbonXL creates the largest diagonal field of view out of all the Polyga 3D scanners at 800mm.



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



The Polyga CarbonXL comes with FlexScan3D, a powerful scanning software. 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.



Motorcycle Engine Part



Car Side Panel



Action Figure

## TECHNICAL SPECIFICATIONS

<b>Cameras</b>	2 x 5 megapixel cameras (monochrome/color)
<b>Dimension (cm)</b>	30.4 x 40.6 x 20.3
<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	Adjustable from 70 to 800 mm diagonal (dependent on camera position on mount)
<b>Resolution</b>	
Average Points	4.9 million per scan
Average Polygons	10.1 million per scan
Point to Point Distance	70mm FOV: 0.027mm 800mm FOV: 0.26mm
<b>Accuracy</b>	70mm FOV: 25µm (0.001") 800mm FOV: 70µm (0.0028")
<b>Standoff</b>	70mm FOV: 160mm from front of rail mount 800mm FOV: 1280mm from front of rail mount
<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