CARBON X

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CARBON X

The **Carbon X** is the answer. While other systems can be restrictive in its ability to only scan similar sized objects, the Polyga Carbon X is different.

The Carbon X combines the ability to scan objects of different shapes and sizes, blue light technology, sturdy rugged body, and powerful software for high-precision professional results.

MORE POWERFUL PROJECTOR

Capture more precise and accurate shapes and intricate details with the new more powerful brighter next generation high lumen projector.

5 MEGAPIXEL CAMERAS

Improved 5 megapixel dual cameras for capturing surfaces in exceptional detail with photo texture support.

FLEXIBLE FOV SCANNING

The Carbon X has a adjustable slider mount to create a custom field of view ranging from 290mm - 1220mm.

BLUE LIGHT TECHNOLOGY

Blue light has a shorter wavelength which capture finer details with less ambient color noise. Blue light also is longer lasting and safer with a cooler operating temperature.

FASTER CAPTURE

Blue light technology can scan objects in a fraction of the time it takes other scanning methods.

PROFESSIONAL GRADE

High grade steel body construction with anodized black textured coating for high durability and years of use.

TARGET LESS SCANNING

No need for endless preparation and removal of scan targets. Effortlessly setup, calibrate and shoot.

PHOTOGRAMMETRY READY

Capture large scale objects and areas with optional photogrammtery kit.

3D PRINTER READY

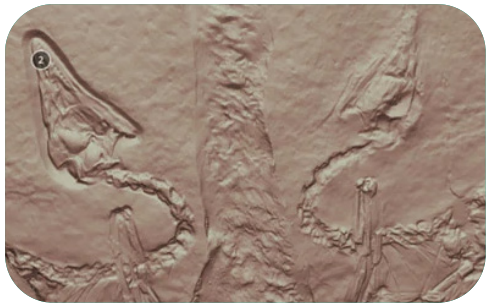
Easily creating 3D printing ready models by exporting in STL format.

SMART DATA PROCESSING

Process data fast in 3D3, ASC, OBJ, PLY, STL, FBX.

COLOR KIT COMPATIBLE

Optional color kit with color camera for capturing RGB in high detail.



Technical specs

DIMENSIONS	Product dimensions (Without rail)	W = 200 mm H = 108 mm L = 271 mm
	Product dimensions (With rail)	W = 500 mm H = 108 mm L = 315 mm
ACCURACY & RESOLUTION	Accuracy	25 microns at smallest FOV 70 microns at max FOV
	Point to point distance	0.038mm - 0.45mm
	3D resolution	Up to 5 million
FIELD OF VIEW	Standoff	290mm - 1220mm
	Minimum field of view, D / H × W @ mid plane	290mm standoff 220mm ∅ / 151 x 160 mm
	Medium field of view, D / H × W @ mid plane	700mm standoff 555mm ∅ / 363 x 423 mm
	Maximum field of view, D / H × W @ mid plane	1220mm standoff 975mm ∅ / 604 x 770 mm
SCAN SPEED	Data acquisition speed, up to	250 ms
TEXTURE	Texture capture support	Yes
	Texture resolution	5.0 Megapixel
	Colors	Mono with available color kit
	Photo texture support	Yes
PROJECTOR & CAMERA	Light projector	Blue light technology projector
	Capture camera	2 x 5.0 Megapixel cameras
HARDWARE	Adjustable rail	Yes
CONNECTIVITY	Input / Output	USB 3.0

COMPUTER REQUIREMENTS	Support OS	Windows 10, 11 x 64. Not compatible with Netbooks or Macintosh computers.
	Minimum computer requirements	Any Intel Core or AMD Ryzen CPU with 16+ GB of RAM
		Dedicated DirectX 9.0c compatible GPU
FREE DISK SPACE	Recommended free disk space	1 TB or more; 7200 rpm
	Minimum free disk space	50 GB or more
OUTPUT FORMATS	3D mesh	3D3, ASC, OBJ, PLY, STL, FBX
POWER SOURCE	Power source	12V ⎓ 10A AC/DC Power

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