

CARBON X



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CARBON X 3D SCANNER

Flexible X Powerful

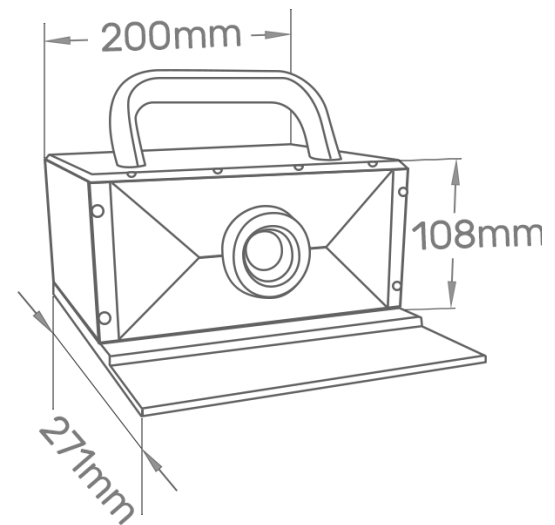
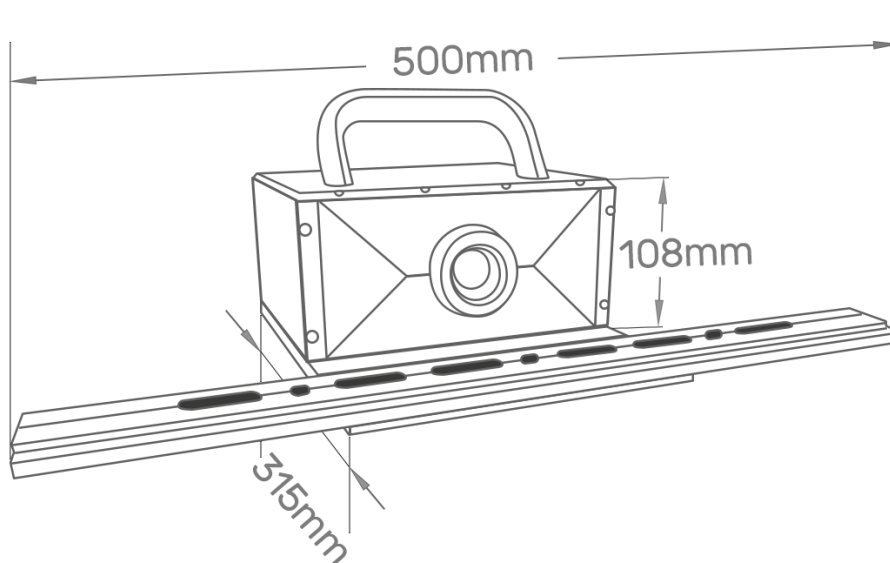
Flexible Field of View 3D Scanner

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.

Applications

- Reverse Engineering
- Computer & Robotic Vision
- Scientific Measurement & Documentation
- Quality Inspection
- 3D Modeling
- Rapid Prototyping
- 3D Printing



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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	25µm at smallest FOV 70µm at max FOV
	Point to point distance	0.038mm - 0.45mm
	3D resolution, up to	Up to 5 million
FIELD OF VIEW	Standoff	290mm - 1220mm
	Minimum field of view, D / H × W @ mid plane	300mm standoff 220mm / 151mm x 160mm
	Medium field of view, D / H × W @ mid plane	700mm standoff 555mm / 363mm x 423mm
	Maximum field of view, D / H × W @ mid plane	1220mm standoff 975mm / 604mm x 770mm
SCAN SPEED	3D reconstruction rate for real-time	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	1TB 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

