CAPTURE
IT IN 3D

SPACE SPIDER



INDUSTRIAL METROLOGY-GRADE
3D SCANNER

PORTABLE AND HIGH-PRECISION 3D SCANNING SOLUTION

FOR ENGINEERS, INDUSTRIAL DESIGNERS, AND METROLOGY PROFESSIONALS.

Created specifically for engineers and CAD designers, Artec Space Spider is one of the most accurate and high-resolution handheld structured-light 3D scanners on the market. It excels at capturing small, industrial objects with intricate details such as compressors, fasteners, screws, and any miniature complex surface that requires 100% precision.

From reverse engineering to quality inspection, AR/VR to medicine, professionals of all kinds choose Space Spider for its highly accurate measurements, versatility, and extreme ease of use.

ACCURACY:
UP TO 0.05 mm

RESOLUTION:
UP TO 0.1 mm

TARGET FREE:
YES

OBJECT SIZE:
SMALL

LIGHTWEIGHT:
0.85 kg

WARRANTY:
2 YEARS

"Our Space Spider is an irreplaceable tool in our 3D scanning workflow. Project after project, we've used it to reverse engineer legacy parts no longer made by the OEM. Space Spider takes just minutes to scan most parts with incredible accuracy and resolution."

CHARLIE CONWAY,
Access Independence

"In my research work in high-throughput phenotyping of rye grasses, Space Spider lets me quickly scan without targets or special lighting, with as much accuracy as $100,000+ laser scanners. Now I can non-destructively analyze hundreds of plants repeatedly in a fraction of the time as before."

TRAVIS TUBBS,
Oregon State University, PhD Candidate

TECHNICAL SPECIFICATIONS

3D point accuracy, *up to*	0.05 mm
3D resolution, *up to*	0.1 mm
3D accuracy over distance, *up to*	0.05 mm + 0.3 mm/m
Working distance	0.2 – 0.3 m
Linear field of view, *H×W @ closest range*	90 × 70 mm
Linear field of view, *H×W @ furthest range*	180 × 140 mm
Angular field of view, *H×W*	30 × 21°
Ability to capture texture	Yes
Texture resolution	1.3 mp
Colors	24 bpp
3D reconstruction rate, *up to*	7.5 fps
Data acquisition speed, *up to*	1 mln points/s
3D exposure time	0.0002 s
2D exposure time	0.0002 s
3D light source	Blue LED
2D light source	White 6 LED array
Interface	1 × USB 2.0, USB 3.0 compatible

Computer requirements

Supported OS	Windows 7, 8 or 10 x64
Recommended computer requirements	Intel Core i7 or i9, 32 GB RAM, GPU with 2 GB VRAM
Minimum computer requirements	Intel Core i5, i7 or i9, 18 GB RAM, GPU with 2 GB VRAM

Output formats

3D mesh formats	OBJ, PLY, WRL, STL, AOP, ASC, PTX, E57, XYZRGB
CAD formats	STEP, IGES, X_T
Formats for measurements	CSV, DXF, XML

Power source and dimensions

Power source	AC power or external battery pack
Dimensions, *H × D × W*	190 × 140 × 130 mm
Weight	0.8 kg / 1.8 lb

