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cadmicro



SPACE SPIDER



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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



TARGET FREE:
YES



LIGHTWEIGHT:
0.85 kg



RESOLUTION:
UP TO 0.1 mm



OBJECT SIZE:
SMALL



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

WHY SPACE SPIDER?



SUPREME ACCURACY AND RESOLUTION

Create highly accurate 3D models of small industrial objects or sections of larger objects in fine detail with up to 0.05 mm accuracy and an impressive 0.1 mm resolution. You also have the option of exporting directly to SOLIDWORKS or Geomagic Design X.



PORTABILITY

Lightweight and compact, Space Spider was designed for a comfortable and flawless 3D scanning experience across all environments. Even in remote locations or without a power supply, you can simply connect it to the Artec battery pack for up to six hours of scanning.



TARGET-FREE SCANNING

Space Spider uses hybrid geometry and color tracking technologies for the best possible data capturing and faster processing. This means no targets are required to achieve accurate results.



GREAT FOR BLACK & SHINY SURFACES

A nightmare for many scanners, reflective and dark surfaces can be digitized in full color and with great resolution, like any other “easy to capture” surface.



EASY TO USE

Just plug the scanner in and point it at and around the item, as you would with a video camera. It's that simple.



SAVES YOU TIME

Thanks to smart temperature stabilization, Space Spider maintains precision in a wide range of temperatures, and adjusts to any conditions in only 3 minutes, saving you precious time.



LONG-TERM REPEATABILITY

Originally developed for the International Space Station, Space Spider features powerful temperature stabilization and high-grade electronics, which allows it to achieve accurate and long-term predictable results in different environmental conditions.



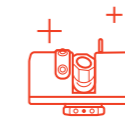
EXCEPTIONAL COLOR CAPTURE FOR CGI, AR, AND VR

With up to 1.3-megapixel texture resolution and advanced automatic software tools, including enhanced color reproduction and auto glare removal, Space Spider is the perfect choice for creating vivid color 3D assets ready for movies, games, VR, and AR applications.



ONE SCANNER — COUNTLESS APPLICATIONS

Designed with engineers and CAD specialists in mind, Artec Space Spider is used by thousands of professionals in a myriad of fields including metrology, reverse engineering, quality control, healthcare, research, VR, AR, and many others.



EASILY PAIRED WITH ALL ARTEC SCANNERS

Space Spider can be paired with any scanner in the Artec family. Combine it with Eva, Leo, or Ray to scan very small, intricate details of medium to large surface areas.



ONE SCANNER FOR MANY YEARS

When purchasing Artec Space Spider, you get a scanner with proven technology, which like a fine wine gets better with time as new features introduced each year make the scanner more powerful than ever.



SPECIAL PRICES FOR EDUCATION

Developed for and mainly used in the industrial sector, Space Spider is a great addition to your classroom or makerspace, i.e. for engineering classes, industrial design, or CAD courses. Contact us to learn more about prices for educational and research organizations.



TWO-YEAR WARRANTY

Artec Space Spider is here and ready for the long haul. In fact, it's so stable and reliable that we offer a two-year guarantee.

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

