

# Ideal 3D scanner for CAD

## Precision at your fingertips

Enhanced 3D scanner featuring improved accuracy system

Developed for the International Space Station



# SPACE SPIDER

Designed specifically for CAD users who require absolute precision, Artec Space Spider is ideal for additive manufacturing, reverse engineering, quality control and mass production. Together with Artec Studio software, it is a powerful tool for engineers and industrial designers of every kind.

## Objects to 3D scan

Artec Space Spider is perfect for capturing small objects with complex geometry, sharp edges and thin ribs. Scan objects such as molding parts, PCBs, keys or coins, or even a human ear, use a wide range of measurement and editing tools to work with your data and export it to CAD software.

## Designed for space, great for Earth

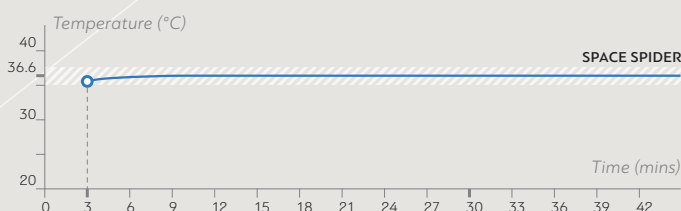
Artec Space Spider was developed to spec for use on the International Space Station. Artec was asked to create a new version of the award-winning Artec Spider which could be relied on to provide the most accurate and stable scanning results in the space station's tough environment for months and months on end – and at speed. The result is the fastest, most reliable precision 3D scanner yet.

## Long-term repeatability

Featuring new, higher grade electronics and a dramatically faster warming period, with temperature stabilization at 36.6 °C, Space Spider is a robust 3D scanner which provides long term repeatability and accuracy in its measured data in a broad spectrum of environmental conditions.

## Saves you time

To achieve the very best results, every measurement tool is usually tuned to the conditions of a particular use case. Space Spider, however, keeps its precision in a wide range of temperatures and adjusts to the conditions in only 3 minutes, saving you precious time.



temperature range for achieving maximum accuracy

## Speed and precision

Processes up to 1 million points per second AND produces extremely high resolution (up to 0.1mm) and superior accuracy (up to 0.05mm).

## 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.

## Portability

Extremely light, weighing in at 0.85 kg (1.9 lb) and battery compatible. This means you can really take Artec Space Spider anywhere, even to space!

## Target free

No need to stick targets all over your object, just point and shoot.

## High resolution and detailed texture

Scan in brilliant color and high resolution (up to 0.1mm).

## Real-time scanning

Scan at 7.5 frames per second. Frames are automatically aligned in real-time.

## Safe to use

Artec Space Spider uses LED lights and is totally safe to use for scanning both children and adults.

## Easy integration

Integrate any Artec 3D scanner into your own customized scanning system using Artec Scanning SDK.

## Applications

Artec Space Spider is the perfect solution for rapid prototyping and manufacturing, as well as healthcare, the automotive industry, aerospace, quality control, heritage preservation and graphic design.

## Space Spider specifications

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Ability to capture texture	Yes
3D resolution, up to	0.1 mm
3D point accuracy, up to	0.05 mm
3D accuracy over distance, up to	0.03% over 100 cm
Warm up period for achieving maximum accuracy	3 minutes
Texture resolution	1.3 mp
Colors	24 bpp
Light source	blue LED
Working distance	0.2 – 0.3 m
Linear field of view, HxW @ closest range	90 mm x 70 mm
Linear field of view, HxW @ furthest range	180 mm x 140 mm
Angular field of view, HxW	30 x 21°
Video frame rate, up to	7.5 fps
Exposure time	0.0002 s
Data acquisition speed, up to	1 000 000 points/s
Multi core processing	Yes
Dimensions, HxDxW	190 x 140 x 130 mm
Weight	0.85 kg / 1.9 lb
Power consumption	12V, 24W
Interface	1 x USB 2.0, USB 3.0 compatible
Output formats	OBJ, PLY, WRL, STL, AOP, ASCII, PTX, E57, XYZRGB
Output format for measurements	CSV, DXF, XML
Processing capacity	40 000 000 triangles / 1GB RAM
Supported OS	Windows 7, 8 or 10 – x64
Minimum computer requirements	I5 or I7 recommended, 18 GB RAM
Warranty	2 years