

# Ideal 3D scanner for CAD

Precision at your fingertips

Enhanced 3D scanner featuring improved accuracy system

Developed for the International Space Station



# Space Spider

\$24,800

Includes 2 year warranty

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

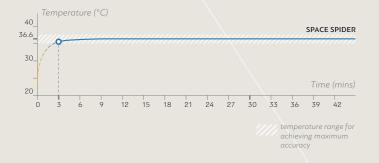
Artec Space Spider was developed to spec for use on the International Space Station. Artec was asked to create a new version of the award-winning Artec Spider which could be relied on to provide the most accurate and stable scanning results in the space station's tough environment for months and months 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.



#### 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

3D resolution, up to 3D point accuracy, up to 3D point accuracy, up to 3D accuracy over distance, up to 0.03% over 100 cm  Warm up period for achieving maximum accuracy Texture resolution 1.3 mp Colors 24 bpp Light source blue LED Working distance Unear field of view, HxW @ closest range Video frame rate, up to Texture rate, up to Texture rate, up to Texture rate, up to Data acquisition speed, up to Nulti core processing Dimensions, HxDxW 190 x 140 x 130 mm Weight 0.85 kg / 1.9 lb Power consumption Interface 1 x USB 2.0, USB 3.0 compatible Output formats CSV, DXF, XML Processing capacity 40 000 000 triangles / 1GB RAM Supported OS Windows 7, 8 or 10 – x64	Ability to capture texture	Yes
3D accuracy over distance, up to  Warm up period for achieving maximum accuracy  Texture resolution  1.3 mp  Colors  24 bpp  Light source  blue LED  Working distance  Linear field of view, HxW @ closest range  Linear field of view, HxW @ furthest range  Angular field of view, HxW  Video frame rate, up to  Exposure time  Data acquisition speed, up to  Multi core processing  Ves  Dimensions, HxDxW  190 x 140 x 130 mm  Weight  Power consumption  Interface  1 x USB 2.0, USB 3.0 compatible  Output formats  Processing capacity  40 000 000 triangles / 1GB RAM  Supported OS  Windows 7, 8 or 10 - x64	3D resolution, up to	0.1 mm
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 0000 points/s         Multi core processing       Yes         Dimensions, HxDxW       190 x 140 x 130 mm         Weight       0.85 kg / 19 lb         Power consumption       12V, 24W         Interface       1 x USB 2.0, USB 3.0 compatible         Output formats       OBJ, PLY, WRL, STL, AOP, ASCII, PTX, ES7, XYZRGB         Output format for measurements       CSV, DXF, XML         Processing capacity       40 000 000 triangles / 1GB RAM         Supported OS       Windows 7, 8 or 10 − x64	3D point accuracy, up to	0.05 mm
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  180 mm x 70 mm  Linear field of view, HxW @ furthest range  Angular field of view, HxW  30 x 21°  Video frame rate, up to  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 / TGB RAM  Supported OS  Windows 7, 8 or 10 - x64	3D accuracy over distance, up to	0.03% over 100 cm
Colors  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, EST, XYZRGB  Output format for measurements  CSV, DXF, XML  Processing capacity  40 000 000 triangles / 1GB RAM  Windows 7, 8 or 10 - x64	Warm up period for achieving maximum accuracy	3 minutes
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Linear field of view, HxW @ furthest range  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	Working distance	0.2 – 0.3 m
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Supported OS Windows 7, 8 or 10 – x64	Output format for measurements	CSV, DXF, XML
	Processing capacity	40 000 000 triangles / 1GB RAM
No.	Supported OS	Windows 7, 8 or 10 – x64
Minimum computer requirements 15 or 1/ recommended, 18 GB RAM	Minimum computer requirements	15 or 17 recommended, 18 GB RAM
Warranty 2 years	Warranty	2 years

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