



SOL
3D scanner

SOL 3D SCANNER

PRODUCT BRIEFING FOR DISTRIBUTORS AND RESELLERS



SCAN DIMENSION

EXECUTIVE SUMMARY

Product DNA

SOL is a desktop scanner compatible with Windows and macOS computers. Key features by design are:

Ease of use

- The set-up of the scanner is simple, and the software does the heavy lifting for you, automatically calibrating, stitching multiple scan passes together (meshing), and generating multiple output formats to meet your needs.
- SOL comes with everything you need to be up and scanning in minutes; the scanner, turn-table, connecting arm/stand, cables, a light-proof enclosure tent, and a duck scan target.

Price-performance

- SOL compares well to much higher priced scanners and gives better results. It provides professional level results with without the pro-grade price.
- Custom software is free for download and usage; no license fees or subscriptions required.

Accuracy

- SOL provides 0.1 mm scan accuracy in near position.

Get additional details at www.scandimension.com

Target markets

Makers

- Engineers
- Designers
- Inventors
- Serious crafters

People who are likely to own their own 3D printer already or those interested in being able to capture real-world items for usage in the digital worlds of AR/VR. SOL is ideally suited for makers who are not experts in 3D modeling software.

Learn more: www.scandimension.com/pages/makers

Hobbyists

- Artists
- Creators
- Collectors

People who want to create a digital copy of an item without having to learn the complexities of 3D software. They may also want to make copies of their creations to share them, or they may want to easily enlarge or reduce the size of their creation. SOL's ease-of-use and precision make it perfect for the hobbyist diving into 3D.

Learn more: www.scandimension.com/pages/hobbyists

Educators

- Technical schools
- STEM/STEAM workshops
- Science labs

Teaches, mentors and students can leverage SOL to quickly gain experience with 3D concepts and tools. When copying an item into 3D is just the starting point for learning or creating something new, SOL is the perfect solution.

Learn more: www.scandimension.com/pages/educators

Entrepreneurs

- Designers
- Businesses
- Start-ups

SOL makes it easy to share your product with partners and prospective buyers. It can help shorten the product iteration time-frame through easy scanning and sharing of complex 3D models.

Learn more: www.scandimension.com/pages/entrepreneurs

Applications

3D printing

Scanning versus complex software modeling

Gaming

Design your own characters or game pieces

VR/AR

Transport real things into the virtual world
CNC Production: Import STL files to make new objects

Rapid prototyping

Invent – Scan – Print – Assess - Iterate

Jewelry

Recreate heirlooms or scan for insurance

Keepsakes

Replicate unique and sentimental items

Parts replacements

Match broken, missing or extra parts

Workflows

Scan-to-share

Scan your real-world item and share a digital copy with colleagues, friends, or family.

Learn more: www.scandimension.com/pages/scan-to-share

Scan-to-print

Scan an item and reproduce it with your own 3d printer, or send the file to a service bureau for printing.

Learn more: www.scandimension.com/pages/scan-to-print

Scan-to-model

Jump-start your own creation by scanning an object and taking it into 3D software to combine with other scans, manipulate digitally, or use as a reference for you own creation.

Learn more: www.scandimension.com/pages/scan-to-model

Compatibility

Software

SOL comes with software to run the scanner and manage and view scans captured. The software supports export to a wide range of file formats used in the 3d printing and modeling world, including OBJ, STL, PLY, DAE, and XYZ file formats. Any 3d software that supports one of these file types can be used.

Printers

Any printer with slicer software that supports STL or OBJ file types can be used with the SOL scanner, including scanners from PRUSA, MakerBot, Lulzbot, FormLabs and many more.

Sketchfab

Store detailed scans and models directly to Sketchfab and share online on popular social platforms, or embedded online.

TECHNICAL DETAILS

- Scanning technology: Laser and camera
- Scanner accuracy: 0.1 mm
- Objects up to 3.9 by 3.9 inches/100 mm by 100 mm in near position, 6.7 by 6.7 inches/170 mm by 170 mm in far position
- Maximum scannable weight: 4.4 lbs. or 70.5 oz (2 kg)

Package includes

- Scanner
- Turntable
- Scanner stand
- USB cables
- Scan test target
- Blackout tent w/enclosure
- Software available for download

Software operating system

- Microsoft Windows 10 64-bit (x64)
- MacOS Sierra, or newer

Hardware requirements:

- Graphics card: Minimum 2 GB memory, must support OpenGL 3.3 or higher
- Recommended hardware:
2.8 GHz processor, 4 cores (8 logical processors), 16 GB RAM, min. 100 GB free disk space
- Minimum hardware:
2 GHz processor, 2 cores (4 logical processors), 8 GB RAM, min. 25 GB free disk space
- USB 3.0 port or powered USB hub for power input
- Internet (required for software download, upgrades, sharing, etc.)

SOFTWARE FEATURES

The SOL scanning software and the SOL Viewer software are provided free of charge to purchasers and downloaded from the Scan Dimension website. The software includes automatic update notices on program launch to ensure users have the latest version.

Export file formats

- OBJ
- STL
- PLY
- DAE
- XYZ

Multiple passes

Multiple scanning passes of an object can be accomplished easily with automatic alignment and integration of the various point-clouds generated by each pass

Storage options

- Local storage
- Raw data is stored within the program and available for view/export from the SOL Viewer software application
- Sketchfab file sharing of OBJ files

Sound notifications

- Software notifies user with sound alerts when attention is needed.

Languages

The software currently supports English, German, Spanish, French, Italian, Japanese, Russian, and Simplified Chinese.

ADDITIONAL INFORMATION

Warranty

Our products have a manufacturer's warranty covering parts and in-factory assembly items for up to two years, depending on the location of the sale.

We follow country regulations, which are:

- 12 months for the USA
- 24 months for Europe

Additional information is available at: https://kb.scandimension.com/manufacturers_warranty

Support

Help functionality is integrated in the software and provided via an online support system at <https://kb.scandimension.com>

Certificates/approval

Safety	IEC 60825(laser safety), IEC 62471 (LED light safety), Certificates: cUL (USA and Canada), CE (Europe), EAC(Russia), BIS (India), RCM (Australia)
Electro Magnetic Compatibility (EMC)	Compliant with Class A requirements, including FCC rules (USA and Canada), EAC (Russia), VCCI (Japan), BIS(India), RCM (Australia)
Country of Origin	Designed in Denmark. Manufactured in China.

Available accessories

- Case: Aluminum briefcase, suitable for easy transport of the scanner and accessories
- Tents: Spare black-out tents and enclosures for ease-of-use if using the scanner in multiple locations
- Replacement/spare parts: Cables, connecting arms, etc. See complete parts list for details

PRESS RELEASES AND SELECTED MEDIA COVERAGE

Product launch press release

<https://scandimension.com/blogs/news-1/new-3d-scanner-launch-sol-offers-one-button-scan-high-resolution-3d-models-scan-sharing-and-more>

macOS press release

<https://scandimension.com/blogs/news-1/scan-dimension-releases-macos-version-for-sol-3d-scanner>

Reviewers (to date)

All3dp.com

2020 Best 3D Scanners (December)

<https://all3dp.com/1/best-3d-scanner-diy-handheld-app-software/>

CNET

The best 3D printer for beginners to buy for 2020

<https://www.cnet.com/news/the-best-3d-printer-for-beginners-budget-creators-to-buy-for-2020/>

IDC

Four Companies Expected to Have an Impact on the 3D Scanning Market Named IDC Innovators

<https://www.idc.com/getdoc.jsp?containerId=prUS45788319>

9to5Toys.com

Scan Dimension SOL 3D Scanner Hands-on: Setup and first impressions [Video]

<https://c212.net/c/link/?t=0&l=en&o=2507049-1&h=204401708&u=https%3A%2F%2F9to5toys.com%2F2019%2F05%2F21%2Fscan-dimension-sol-3d-scanner-review%2F&a=9to5Toys.com>

Uncrate.com

SCAN DIMENSION SOL 3D SCANNER

<https://uncrate.com/scan-dimension-sol-3d-scanner/>

Manofmany.com

SOL 3D Scanner is Accurate, Precise, and Affordable

<https://manofmany.com/tech/sol-3d-scanner-is-accurate-precise-and-affordable>

All3dp.com

SOL 3D Scanner Hits Sweet Spot in Price and Accuracy

<https://all3dp.com/4/sol-3d-scanner-hits-sweet-spot-in-price-and-accuracy/>

3D Printing Professor

3D Scanning with the \$600 Sol Scanner from Scan Dimensions

<https://www.3dpprofessor.com/2019/08/06/3d-scanning-with-the-600-sol-scanner-from-scan-dimensions/>

CairoWest.com

Scan Dimension Unveils SOL, a Very User-Friendly 3D Scanner

<http://www.cairowest.com/blog/2019/05/scan-dimension-unveils-sol-a-very-user-friendly-3d-scanner>

About Scan Dimension

Scan Dimension® is a trusted source for 3D scanning and realization technology. SOL is the company's flagship product, the market's most user-friendly 3D scanner.

Scan Dimension is a division of Global Scanning A/S, a market leader in imaging technologies that boasts top brands such as Contex and Colortrac, among others. For more than 28 years, Global Scanning provides leading-edge solutions for a wide range of industries such as manufacturing, construction, engineering, and fine art.

CUSTOMER QUOTES:

"Just Brilliant. I was able to scan an incredibly small model head with minute details like a cleft chin and it was visible in a zoom! Super happy. As reference this was a 1/12 scale human head."

– Austin, Texas

"I learned how to use this scanner today and it is freakin' awesome! We only did a single scan, but I will definitely be back to do more!!!"

– Hobbyist at Make Salt Lake

"SOL is a great 3D scanner that easily competes with multi-thousand-dollar scanners that we have here at the makerspace."

– David Dalton, Hammerspace Community Workshop

"I have access to several mid-price scanning options and several very expensive units. For the price, this unit performed very well on a resin-cast gnome that I've used for a scan target in other systems. The first scan came out perfectly and with a watertight STL file ready to print."

– Maker in Texas

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"I found the quality of construction excellent, and the assembly easy. My only criticism is that it takes time. I'm eager to make more scans with this unit. The software was very intuitive and ran smoothly on my laptop."

– Eric Albert

"DON'T WASTE TIME WITH ANYTHING ELSE IN THIS PRICE RANGE OR LOWER, THIS IS THE BEST BY FAR

After burning my fingers with the Makerbot Digitizer I had all but given up hope of finding something reasonably priced that could solve my 3d scanning need. I've got a few scans under my belt so far with the Sol scanner and I've been happy with the results so far. Echoing others, it would have been nice to only have one hook up, the black out cover is a little challenging to get back in to it's baggy. But these are tolerable given the output. The SMS update feature might be handy for some but I'd prefer email or IFTTT integration. On another positive note I've found the tech support exemplary. I had a couple of questions during setup and initial scans and they responded very quickly."

– Jason Heron

"THIS IS A FINE SCANNER AT A GOOD PRICE

I'm very pleased with the results from this scanner. When it arrived, I was surprised that it came with a black "photo tent" type light shield, because I thought it might make it more difficult to use. It turns out that it doesn't. The tent takes up a little more desktop room (about 13 x 24 inches) than the scanner alone, but it does a really good job of keeping ambient light from affecting the results. The resolution is very good. I don't have a good way to test it seems to be better than the claimed 0.1mm. Accuracy is also very good. Scans of items 2-3 inches in size are within 3% of the scanned item size. This is not a fast scanner, at 20+ minutes per pass, but that's not an issue for me and my work flow. The software has one annoyance that I have seen twice - if one of the scan passes fails, there is no information provided about WHY the pass failed, and the only option you have is to end the entire scan and take the results you have. It would be much better to be able to discard the problem pass and continue. The ability to export multiple file formats is very good, and I have been able to edit the exported .obj files in Fusion 360 or go directly to a 3d print slicer with the exported .stl files. As with any structured light scanner, shiny objects and those with regular repeated patterns may be hard to scan. This is common to the technology and not a fault of this scanner. I'm very happy with the performance for the price."

– Steve Conklin

"GREAT 3D SCANNER

Both the hardware and software for this 3d scanner have been well thought out and executed. It's a little on the slow side, but for the quality of the scans it produces it is more than worth the wait. As noted by others, the options in the software are fairly basic but since it is a brand new product that also means there is lots of room for improvement on the very solid foundation. Looking forward to seeing just how capable this scanner is!"

– Les Rosenberg

PRODUCT IMAGERY AND VIDEO CONTENT

Imagery



Examples of images

Videos (YouTube)

[SOL: Professional-Grade 3D Scans-Affordable Price](#)

[SOL 3D Scanner by Scan Dimension](#)

[SOL 3D Scanner - Watch it in Action](#)

SALES CHANNELS, WEB AND SOCIAL MEDIA SITES

Sales channels – All countries

Distributors and resellers

Additional sales channels – US and EU only

Direct at <https://scandimension.com> via Shopify platform

[Amazon](#)

[Ebay](#)

[Facebook](#)

Web and social media sites

Scan Dimension Blog: <https://scandimension.com/blogs/news-1>

Scan Dimension Knowledge Base: <https://kb.scandimension.com/>

Facebook: <https://www.facebook.com/scandimension/>

Instagram: <https://www.instagram.com/scandimension/>

YouTube: <https://www.youtube.com/channel/UCd5V8Qur6LSrSpYiskJpftg>

LinkedIn: <https://www.linkedin.com/company/scandimension/>

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