



3D SCANNING IN SCIENCE AND RESEARCH



SOL[®] PRO 3D scanner

Learn about 3D

3D scanning and printing is rapidly becoming a natural part of any design and research process – also in technical schools and universities. As an educator in science and research classes, you can help your students to a head start within 3D scanning.

Technical schools and universities can benefit from a professional-grade 3D scanner. Use the 3D scanner for learning and experimenting with 3D modeling and 3D printing.



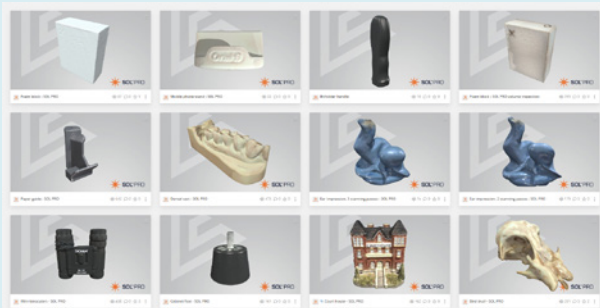
LEARN ABOUT APPLICATIONS

Ideas are abundant, yet turning those ideas into real world objects and applications is challenging. SOL or SOL PRO makes it simple for students to generate high-resolution scans for artistic creation, invention, prototyping and more.

CLASSROOM AND EDUCATION WORKFLOW

Get familiar with the different 3D workflows such as scanning, printing, modeling, etc. Typically, usage within a classroom follows this workflow:

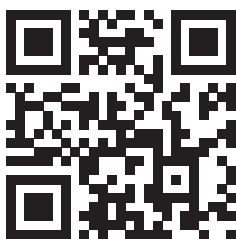
1. **Scan** your object or creation using the SOL PRO 3D scanner
2. **View** the result directly in the software and easily read out measurements of volume and surface area
3. **Export** in one of the supported formats: OBJ, STL, XYZ, DAE, PLY
4. **Import** your file into your preferred 3D modeling software
5. **Improve or modify** your work
6. **3D print** and/or
7. **Share** online



3D SCANNED EXAMPLES

Visit our collection on Sketchfab and inspect these 3D models scanned with SOL PRO 3D scanner. Log in and download for your own use.

<https://skfb.ly/oPrWP>



3D modeling

This part of the workflow is about using a scan as a starting point or reference object for more complex 3D modeling. Users will create a 3D model using the SOL PRO 3D scanner and then import the OBJ or STL file into their modeling software of choice. Once imported, they can use the scan as an 'outline' of the model they wish to create or incorporate the scan into other work projects.

3D printing

Create a duplicate or replica of an object easily. The SOL PRO 3D scan will primarily be used for importing into a 3D printing program (slicer) and then output to a 3D printer. The object may be scaled up or down prior to printing, depending on the user's needs and wishes.

Sharing

Once a scan is completed, SOL PRO Viewer 3D software can save the model in various file types (OBJ, STL, PLY, DAE and XYZ) for further publication or distribution. Scans can also be uploaded to Sketchfab directly from the SOL PRO software for easy online sharing.

LESSON PLAN

Scan the QR code and find more information and links on our website, including a 'Lesson plan' outline of how to scan and explore using SOL PRO 3D scanner.

<https://scandimension.com/pages/science-research-with-sol-pro-3d-scanner>



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