

FARO® Optor™ Lab

Improve speed and accuracy in your digital workflow

Highly Flexible 3D Scanner for a Variety of Dental Applications

Optor Lab is a 3D dental scanner that combines all kind of dental professional needs to support a digital workflow.

This all-in-one 3D scanning device with its flexible modules is both, an ideal entry-level solution and the most advanced 3D scanning desktop scanner. The flexibility in features and the open structure is built for convenient desktop scanning applications in any dental laboratory. Optor Lab provides a simple way to position and scan all different kind of dental objects. The baseline model is ideal for every user who wants to enter the digital 3D world of modern dental workflows.

Optional features elevate the Optor Lab to a high-end 3D desktop scanner to serve very efficient and highly accurate expert applications and can easily and independently be activated with the integrated Optor⁺ software on demand. The innovative shape and staggering accuracy allows to scan any type of articulator, model or implant jig.

Optor Lab comes with all the desired features for a dental scanner: such as color acquisition, impression scanning, automatic calibration, easy-to-follow project workflows, implant scanning and positioning, automatic alignments, export to any dental CAD software. Moreover, the scanner's advanced technology leads the industry in scanning and accuracy.



Key Features and Benefits

Guaranteed High Accuracy

Optor Lab with certified Reference Ring achieves a guaranteed accuracy of 5µm. The automated self-calibration of the scanner ensures the high precision over time and allows users to design best-in-class implants with absolute confidence of the outcome.

Rapid Scanning Speed

The user can enhance the productivity with a scanning speed of up to 15 seconds for a single arch.

Wizard and Free Scanning Procedures

Available wizards in the baseline model offer the simplest way of scanning even for users with little training. The expert mode supports advanced users to achieve even better and more customized results.

Automatic Alignments

Any scanned item is automatically aligned based on the given reference, to enhance accuracy and reduce operator connected errors.

Ideal Applications

Fixed Prosthesis: Reduce the workflow process of fixed cemented prosthesis projects to deliver accurate restorations to customers.

Implantology: Successfully face even the most challenging requests in implantology, by scanning, designing and producing highly accurate prosthetic solutions.

Orthodontics: Simply store 3D models of patients. Plan and present the end result to customers before implementation. Build a digital database of the historical progress of a patient.

Removable Prosthesis: The process of prosthetic 3D scanning, design and rendering is more efficient and easier with the new Optor Lab.

Optor Lab Solution

Optor Lab comes with an integrated software solution: Optor^L. It enhances the full capability of FARO hardware and advanced software features for best-in-class results. The clear instructions and the easy-to-understand icons of the scanning interface make the working experience straight-forward and immediate for both, beginners and experts. Optor Lab hardware and Optor^L software can be bundled with Exocad DentalCAD.

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| Optor Lab Solution Optor Lab + Optor ^L | In order to easily enter the modern digital dental process, Lab solution offers the possibility to start with basic and daily projects like Prosthesis, Orthodontics, Removable Frameworks, or Impressions. |
| | Fast-Scanning: Scan faster (acquire a single arch in 15 s) and save even more time, enhance the acquisition speed of the cameras. |
| | High-Accuracy Scanning: The Reference Ring allows that scans are more precise and the system is self-calibrated. |
| Exocad | Advanced Features: Choose between the Free or the Expert Mode. The optional module provides more details thanks to the colors and allows to obtain a more complete point cloud thanks to the Single Camera Acquisition Option. Choose to save even more time using the Concept Quad module or to be more precise thanks to Dynamic Articulator module, perfectly integrated in Exocad. |
| | Exocad DentalCAD software is an extremely reliable and robust design platform, even when dealing with complex cases on a daily basis. For each dental project, exocad provides a very easy-to-follow, but at the same time extremely flexible wizard that will guide the dental professional through the various stages of digital design. Beginners can feel confident following the provided structures and experts are offered short-cuts to speed up the design and further enhance their productivity. Exocad add-on modules expand the features of the standard version allowing every dental professional to choose just what they need for their business. |

Technical Information

| Hardware | Standard | Optional |
|---------------------------|------------------------|------------------|
| Accuracy * | up to 10 µm | up to 5 µm |
| Repeatability * | up to 5 µm | up to 2 µm |
| Scanning Time (full arch) | up to 24 seconds | up to 15 seconds |
| Scanner Dimension | 545 x 350 x 455 mm | |
| Scanner Weight | 22 kg | |
| File Format | .STL, .OBJ, .PLY, .OFF | |

*according to ISO12836 - Annex A

Computer Specifications

Platform: Microsoft Windows 7 / 8 / 8.1 / 10 64-bit

Processor: Intel® i5TM or better

RAM: 8 Gb Ram or better

Graphics: NVIDIA GeForce GTX 1050 or better

USB Chipset: Intel C220 - Rensas USB 3.0

Display

Resolution: 1920p x 1080p (HD)



Certifications: Meets OSHA requirements, Complies with Electronic Code of Federal Regulations 47 CFR PART 15, 17 CFR Parts 240 and 249b – Conflict Material.

Complies with the following EC Directives: 93/68/EEC CE Marking; 2014/30/EU Electrical Equipment; 2011/65/EU RoHS 2012/19/EU WEEE; 2014/35/EU Low Voltage Directive.

Conforms to the following standards: EN 61010-1:2010 / CSA-C22.2 No. 61010-1; EN 61326-1:2013 EMC; IEC IEC 62471; FDA 21 CFR 872.3661- Optical Impression Systems for CAD/CAM

Freecall 00 800 3276 7253 | info.emea@faro.com | www.faro.com

FARO Europe GmbH & Co. KG | Lingwiesenstrasse 11/2 | 70825 Korntal-Münchingen



Contract Holder