

# open technologies

Optical 3D Scanner



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3D DENTAL SCANNER



Research and Innovation **Made in Italy**



CATALOGUE

# GENERAL INFORMATION

*Open Technologies* produces 3D dental scanners with a Made in Italy hardware and a software that is developed and constantly updated by the company's R&D department.

## OPEN TECHNOLOGIES' SCANNERS:

### Reliable

*Open Technologies'* hardware components are specifically designed to guarantee the maximum reliability. The optic setup, designed by the company R&D department, provides a good calibration stability in the course of time.

### Customizable

*Open Technologies* produces its scanners internally, as it develops and updates the connected scan software. For this reason, both the hardware and the software are customizable according to the specific requests of each distributor. The company offers a full customization service of the product.

## OPTICAL REVENG DENTAL SCAN SOFTWARE:

### Easy

*Optical RevEng Dental* is an intuitive and user friendly scan software; a few steps and the user can be immediately productive. Thanks to the integration with the most popular CAD software, the user can easily work, without interruptions.

The work project can be directly defined in the CAD database, or inside the scan software; this allows to launch a guided procedure that the user can follow during the scan and the exportation of the project.

### Accurate

The accuracy of *Open Technologies'* scan systems is constantly tested on multi-implants cases, through the use of special Scan Bodies. The scanner results are then compared to the results obtained with a high-precision edge finder.

### Flexible

*Optical RevEng Dental* scan software gives the user the possibility to choose between two different work modes: the guided mode, which allows the beginner to follow a schematic and sequential workflow, and the expert mode, which gives to the skilled user a high management freedom and the possibility to add a surplus value to the project with his/her experience.

### Open

The scan system allows to obtain, as output file, some standard and open formats (STL, OBJ, OFF, PLY), giving the user the possibility to choose any kind of CAD or production machine.

- Accuracy of the system 5 micron, based on ISO certification 12836
- User friendly and intuitive interface
- Periodic calibration control
- No orientation restrictions of the object inside the scanner
- Modular and expandable software (Impression module, Virtual Articulator module, etc.)
- Software available in English, Italian, Spanish, Portuguese, French, German, Chinese, Russian, Turkish, Arabic, Romanian
- Project saved automatically and continuously
- Structured light technology
- Simultaneous design and scanning
- Open format of the Output Files (STL, OBJ, OFF and PLY)
- Integration with the main CAD software
- Automatic recalibration
- Customizable software and scanning parameters
- Constant automatic and free updates
- 24-months extension of warranty
- Online Wiki Manual available in English, Italian, Spanish, Portuguese, French, German, Chinese, Russian, Turkish, Arabic, Romanian

## EASY

### EASY dental scanner

Easy is the basic model of Open Technologies' range of scanners. Simple and efficient, it is the perfect solution for the user who wants to take the first steps in digital technology.

It is specifically designed to scan whole models for orthodontic and mobile prosthesis projects.



## SMART



### SMART dental scanner (Small or Big)

Smart is Open Technologies' best-seller, also thanks to its automatic integration with the main CAD software. It's the complete solution for the user who needs to work on different kinds of projects, for instance the acquisition of implants.

It is able to manage all the Optical RevEng Dental optional modules and it is, for this reason, customizable.

The Smart model is available in two different sizes: Smart Small and Smart Big, with the same components and performances.

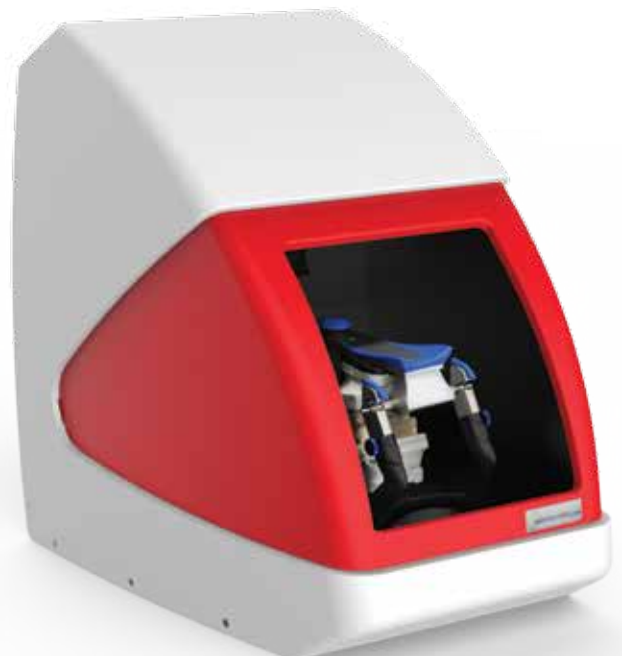
The Smart Big model is suggested for projects that require the use of the articulator.

## DELUXE

### DELUXE dental scanner

Deluxe is Open Technologies' full optional model. Provided with cameras that acquire the colour and the texture of the models and the best speed performances, it's the perfect scanner for the user who wants to meet the specific demands of each kind of project.

All the Optical RevEng Dental optional modules are included in the Deluxe model, except for the Dynamic Articulation and the Concept Quad modules.





## Possible projects

- Models acquisition
- Bridges and anatomic, reduced and offset crowns

## Optionals

- Guided scan strategy for removable frameworks
- Guided scan strategy for orthodontic projects, with Model Base Design
- Database for Orthodontic and Removable frameworks' projects (VDDS protocol)
- Concept Quad module
- Reference Rim

## Possible projects

Everything that can be done by the Easy model, plus:

- Possibility to choose between the guided scan procedure and the free scan procedure
- Acquisition of full models and sectioned models
- Multi-die acquisition
- Implant Scan Bodies' scanning and alignment
- Articulator acquisition (only Smart Big)

## Optionals

- Impression acquisition
- Model creation from impressions (with Model Base Design)
- Guided scan strategy for removable frameworks
- Guided scan strategy for orthodontic projects, with Model Base Design
- Dynamic articulation module (only Smart Big)
- Database for Orthodontic and Removable frameworks' projects (VDDS protocol)
- Concept Quad module
- Reference Rim



## Possible projects

Everything that can be done by the Smart model, plus:

- Texture colour acquisition
- Impression acquisition
- Model creation from impressions (with Model Base Design)
- Guided scan strategy for removable frameworks
- Guided scan strategy for orthodontic projects, with Model Base Design

## Optionals

- Dynamic articulation module
- Database for Orthodontic and Removable frameworks' projects (VDDS protocol)
- Concept Quad module
- Reference Rim



# OUR 3D SCANNER MODELS

	EASY	SMART		DELUXE
	small	small	big	big
<b>Scanning System</b>				
5-Axis Scanning System *	•	•	•	•
Power Supply	110/220 V 50/60 Hz	110/220 V 50/60 Hz	110/220 V 50/60 Hz	110/220 V 50/60 Hz
Input – Output File Format	STL, OBJ, OFF, PLY	STL, OBJ, OFF, PLY	STL, OBJ, OFF, PLY	STL, OBJ, OFF, PLY
Accuracy (µm) (ISO 12836 certification)	10	5	5	5
Repeatability (µm) (ISO 12836 certification)	5	2	2	2
Resolution (µm)	10	5	5	5
Scanning time (Full Arch)	around 60 Sec	around 40 Sec	around 40 Sec	around 20 Sec
Scanner Dimensions (cm)	40x40x25	50x29x48	61x35x60	61x35x60
Weight (Kg)	16,5	10	20	20
Interface	USB 2/USB 3	USB 2/USB 3	USB 2/USB 3	USB 3
Cameras	2	2	2	2 with color

\* 3 Optical axis and 2 mechanical axis

<b>Working Strategies</b>				
Guided mode	•	•	•	•
Expert mode		•	•	•
Models/Dies scanning	•	•	•	•
Implants scanning and positioning		•	•	•
Impression scanning (with Model Base Design)		○	○	•
MultiDie 9 elements strategy		•	•	•
Removable frameworks strategy	○	○	○	•
Orthodontics strategy (with Model Base Design)	○	○	○	•
Articulator scanning			•	•
Dynamic articulation module			○	○
Concept Quad module	○	○	○	○
Reference Rim	○	○	○	○

<b>Advanced Specifications</b>				
GPU Processing		•	•	•
Indexed Positioning System				•
Direct Positioning System		•	•	•
Periodic calibration control				•
Recalibration System	•	•	•	•
Colour Acquisition				•
Mouse 3D ready	•	•	•	•
Touchscreen ready	•	•	•	•

•	included
○	optional
	unavailable

## FROM CONCEPT TO REALITY

*Open Technologies* has been established in Brescia in 2001 with the purpose of design and produce optical 3D scanners for the dental and industrial fields. Thanks to the constant progress of the *R&D department*, and thanks to the company's investments in the innovation field, *Open Technologies* is today the *leader on the Italian market of the scan systems*, with a range of models in continuous evolution and a 40% exponential annual growth.

The philosophy that inspires the company since its foundation, and that is still its main purpose, is the production of **Made in Italy** 3D scanners that are innovative but, in the meantime, user friendly.

With a 80% of its turnover coming from the foreign countries and authorized distributors in more than 82 countries, *Open Technologies* is strongly present on the international market.

With the purpose of constantly improving the final users' technical support, all the *Open Technologies'* distributors are properly trained to take care of clients' technical needs and they are also regularly updated on the company's products development and on the evolution of the scan technology.

A basic aspect of the company philosophy is also the interest for its human resources, for which *Open Technologies* invests part of its turnover, with the purpose of keeping its staff members and its distributors constantly updated and trained.



Become a reseller! Visit our website and fill in the form to be contacted, or simply to get further information.

Open Technologies products can be purchased from our authorized dealers



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OpenTechnologies Dental



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partner **exocad**