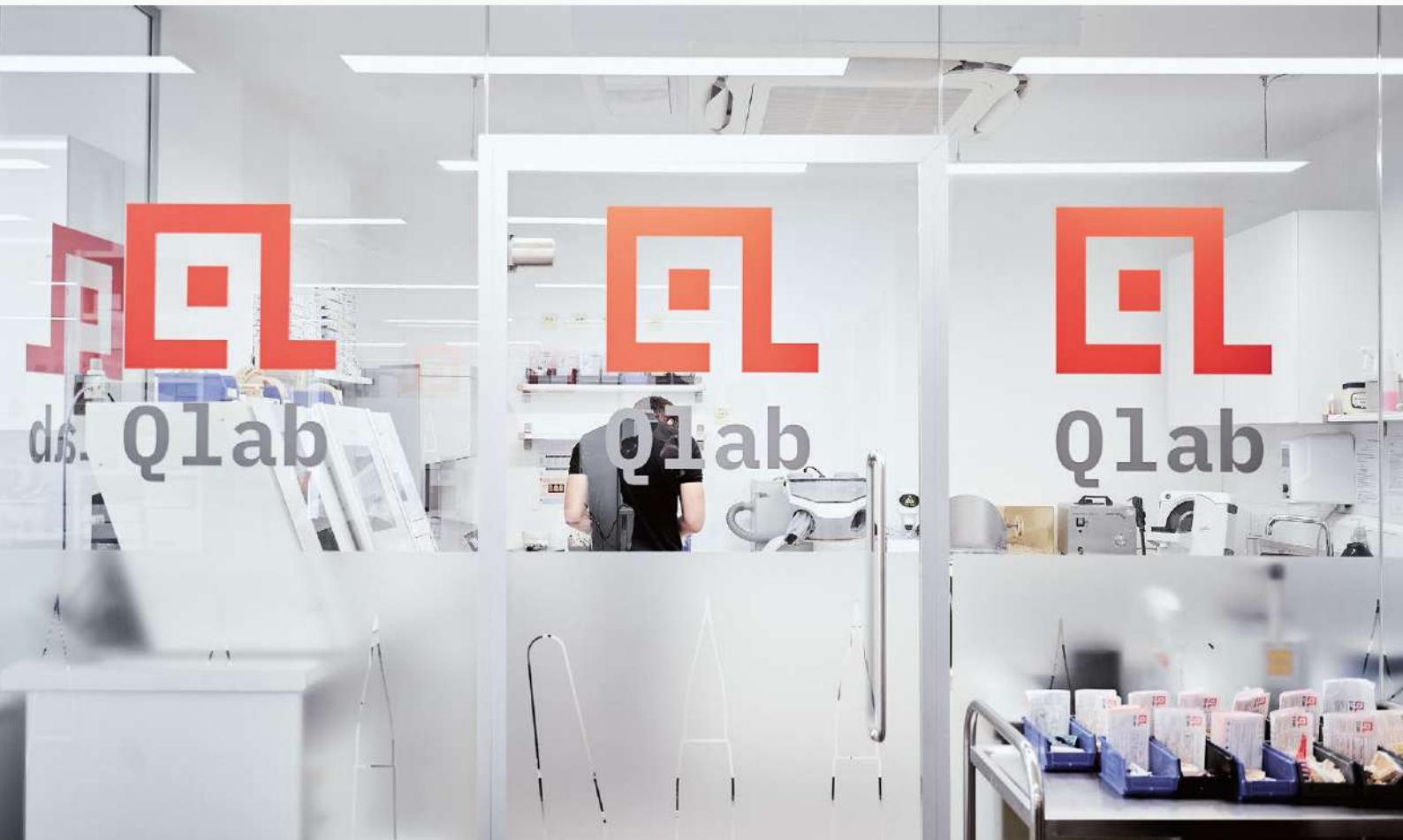


QLAB Dental Lab Using RAYSHAPE DLP Dental Solution For Daily Operations

“3D printing on RAYSHAPE for dentistry brings speed and efficiency into Qlab. Easy to master, open source solution and support help is at hand from RAYSHAPE team.”

Alaa Abou Hasan
Director of Qlab



The dental market in the UK is one of the biggest markets in Europe. Due to the increasing aging population, the market is anticipated to register growth with an impressive CAGR in the forecast period, 2023-2027. As a result, there has been an increase in dental implants and oral surgeries, with 12,085 registered dental companies and 14,340 dental practices in total.

Located in London, Qlab is a cutting-edge digital dental lab that strives to create pristine dental restorations for private dental clinics. Primarily seeking to revolutionize the dental industry's work by improving smiles and providing natural solutions and repairs to patients.

Qlab is always looking for the best equipment and the most talented, skilled ceramists and dental technicians to achieve exceptional standards. However, one of the main obstacles that the lab experienced was finding **reliable equipment for continuous production**. The problem lies in the time required to **manufacture and integrate a final product**, increasing costs.



Qlab team making sure to achieve exceptional 3D print

Introducing 3D printing technology to the lab workflow.

The laboratory is no stranger to 3D printing technology, their first solution was an LCD 3D printer, but the lab soon realised that it required a lot of maintenance. The monochrome LCD panel often needed replacing to consistently run the machine in a **9-hour shift**, ultimately making it non-profitable after calculating the ROI and considering that the lab works to meet strict deadlines for their clients.

Integrating a Dental DLP solution from RAYSHAPE



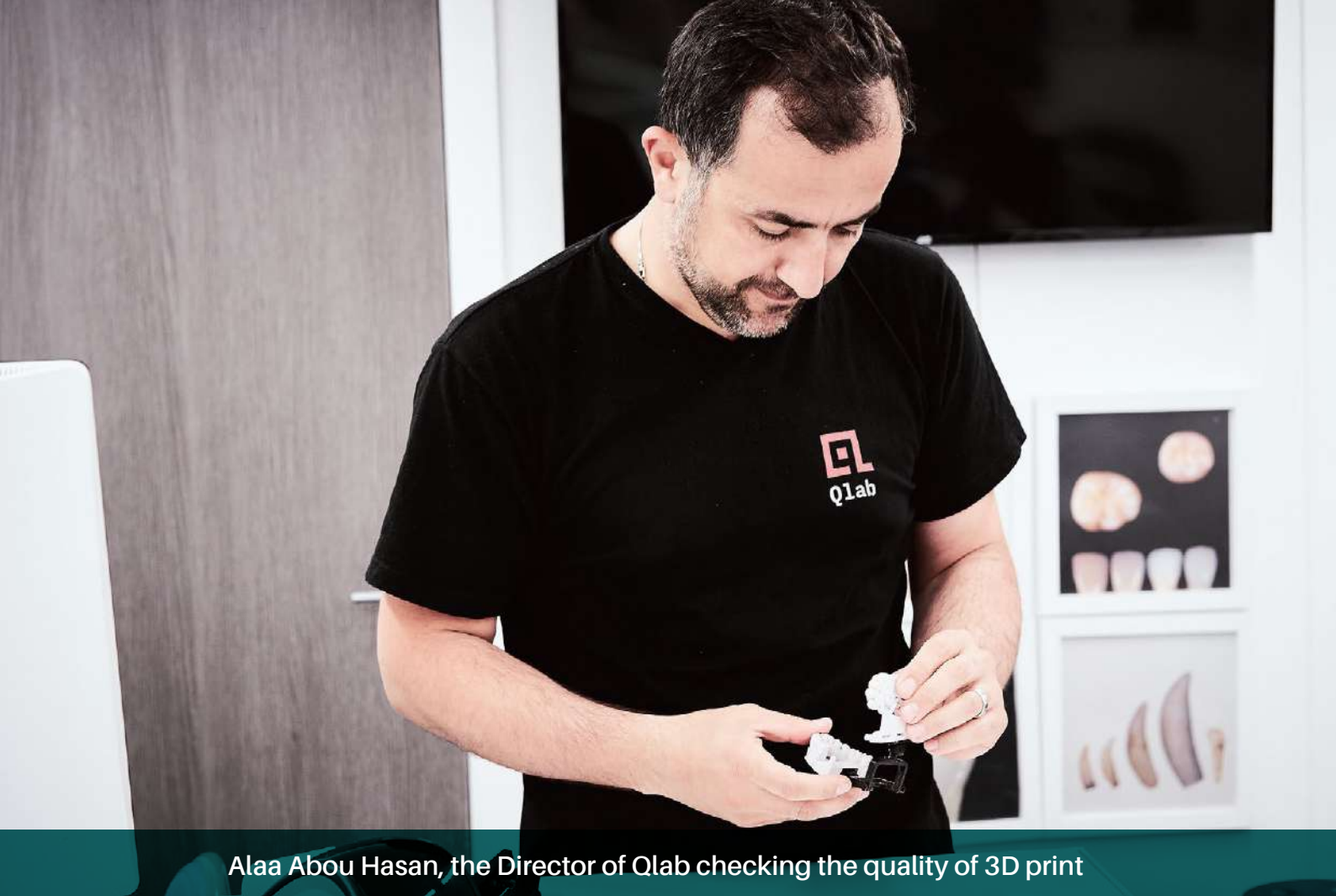
Shape 1+ Dental, user-friendly and easy to operate 3D printer

Realising this issue, the director of Qlab, Mr. Alaa Abou Hasan, began evaluating different solutions. The goal was to find a reliable 3D printer for continuous production with excellent quality printing results.

The solution was found in the **Shape 1+ Dental resin DLP 3D printer** from RAYSHAPE. The machine is equipped with a UV light and has a print volume of 144 × 81 × 200 mm (5.76 × 3.2 × 7.87 inches).

The result? A perfect combination of reliability and continuous 3D printing at a competitive price.

In addition, to eradicate the high expenses on consumables, RAYSHAPE offers refurbished resin tanks with a **new FEP film installed with each**.



Alaa Abou Hasan, the Director of Qlab checking the quality of 3D print

Shape 1 + Dental 3D printers fit into Qlab operations

RAYSHAPE 3D printers use state-of-the-art DLP (digital light processing) technology, helping Qlab become more digital with 3D printing technology. In a working environment, the **Shape 1+ Dental achieved rapid printing times of less than 30 minutes** for model printing ready for vacuum forming aligners at 100 microns, and **less than 60 minutes** printing **surgical guides** at 50 microns.

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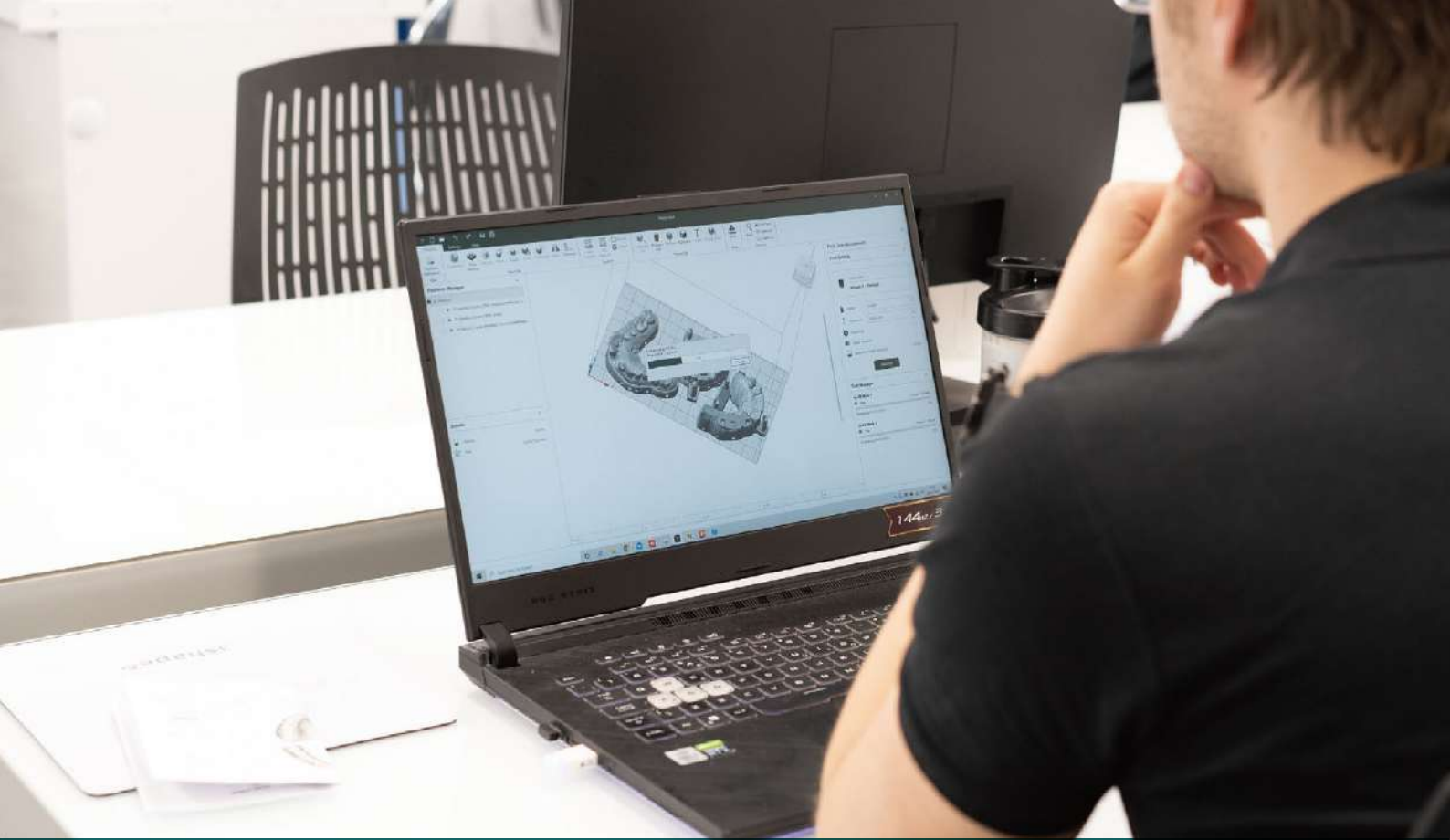
Qlab print various dental solutions with the Shape 1 + Dental

With the adoption of the RAYSHAPE dental solution, Qlab is optimizing the entire process by printing 8 different solutions:

- **Models** - For implant cases, CT scans, aligners, retainers, mouth guards, teeth whitening trays.
- **Gingiva** - Printing gums for implant models.
- **Custom Trays** - Print better-defined impressions.
- **Temporaries** - Instead of CNC milling PMMA and ending up with waste, 3D print temporaries.
- **Casting** - Print the cast you need in RAYSHAPE resin to later manufacture in metal.
- **Surgical Guides** - Print your guide to help you save time for patients' implants.
- **Splints** - Print hard or soft splints, known as night guards.
- **Dentures** - CAD/CAM complete dentures are easier and faster to print.



Shape 1+ Dental system is compatible with third party resin brands



ShapeWare software includes advanced and easy of use editing functions

Benefits from RAYSHAPE's solution.

With the RAYSHAPE solution installed, Qlab can fulfill its orders in multiple areas of dentistry by being able to 3D print a vast number of solutions. A 1-year warranty is provided and 1-day free training. Furthermore, the lab was so impressed with the results that they purchased a second printer to double their productivity during working hours.

Qlab is a fully digital lab and can always rely on RAYSHAPE dental solutions.



Contact:

[www.qlab-dental.co.uk](http://www qlab-dental.co.uk)

[Learn more: Video link](#)

RAYSHAPE

