



Intraoral scanners introduced at IDS 2019

IOS Brand	Manufacturer	Special feature	Demo with Human or Model	Arch Distortion	Scan speed	Wand size & weight
Aoralscan	Shining 3D	Newcomer (Nothing special)	Model	5	5	3
Condor	Condor	Smallest scanner tip	Human	4	4	1
CS3700	Carestream	Ergonomic design/ Shade matching algorithm	Model	2	2	2
Emerald S	Planmeca	Small scanner tip/ Transillumination tip	Model	3	3	3
i500	Medit	Subgingival margin - Add Impression scan	Human	1	1	2
iTero Element 5D	Align Technology	NIRI(Near-infrared imaging) proximal caries detection without Transillumination tip	Model	1	2	5
KaVo X Pro	KaVo	Newcomer (Nothing special)	Model	3	3	2
Primescan	Dentsply Sirona	Improved speed/Wide monitor/Touchpad	Model	1	1	4
Trios 4	3shape	Surface caries detection / Transillumination tip	Human	1	1	2
V-IOS	VOCO	Subsurface scanning (Digital Holography)	Not yet introduced	No information	5	5
Virtuo Vivo	Dental Wings	Small wand(Pen-grip)/ Wide window	Model	3	2	1

*The smaller the number, the higher the performance.

IMPORTANT NOTICE!

We have updated our 'Terms of Trading' which you can view online and on our invoices we send back with finished work (Blue paper). This includes a new financial settlement, late payment interest, re- make policy and quality control which will be effective immediately.

www.bremadent.co.uk/terms--conditions



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Turn to page 2 for the Accuracy of 9 intraoral scanners for complete-arch article:

When you do the patient's restoration in A2 shade, then you realize he was A4.



Dental Fact:

21.8m adults were seen by an NHS Dentist in the 24-months up to 31 December 2019 which equates to 49.6% of the adult population

Oh Lord...the lab work banged up abroad!

Since the last newsletter, we publicly stated that we do not and have never outsourced any of our laboratory work overseas . Since the current coronavirus outbreak, we have been inundated with laboratory work. With this in mind we are happy to accommodate and take on new clients. There are a few things to consider before phoning Bremadent to be your new lab.

- **Price:** We cannot change our prices, our prices accommodate our quality of work, service and overheads.
- **Working Time:** Our working times have to be followed in order to control quality and manage work flow.
- **Payment:** Prompt payment is essential, cash flow allows us to accommodate and maintain the quality of work and service.
- **Problem:** If there is a problem, phone us, we're there to help! Email or phone.



Accuracy of 9 intraoral scanners for complete-arch image acquisition: A qualitative and quantitative evaluation.

Article by Ryan Jin-Young Kim, BDS, MSD, PhD,^a Ji-Man Park, PhD,^b and June-Sung Shim, DDS, PhDc.

Statement of problem: Different intraoral scanners (IOSs) are available for digital dentistry. However, information on the accuracy of various IOSs for complete-arch digital scans is limited.

Purpose: The purpose of this in vitro study was to evaluate the trueness and precision of complete-arch digital scans produced by 9 IOSs, using the superimposition method, and to compare them based on characteristics including the data capture principle and mode and the need for powder coating.

Material and methods: Nine IOSs were used to obtain standard tessellation language (STL) data for a bimaxillary complete-arch model with various cavity preparations (N=10). The scanning performance was evaluated quantitatively and qualitatively. For quantitative evaluation, the images were processed and analyzed using 3-dimensional (3D) analysis software. After we superimposed the datasets, trueness was obtained by comparing it with the reference scan, and precision was obtained from intragroup comparisons. The IOSs were compared based on the data capture principle and mode and the need for powder coating. Statistical analyses were conducted using a Kruskal-Wallis test, followed by multiple Mann-Whitney U tests for pairwise comparisons among groups ($\alpha=.05$). For qualitative evaluation, surface smoothness and sharp edge reproducibility of the digital images were compared.

Results: The median precision values were lowest in the Trios model (average, 34.70 μ m; maximum, 263.55 μ m) and highest in the E4D model (average, 357.05 μ m; maximum 2309.45 μ m). Median average trueness values were lowest in the Trios model (42.30 μ m) and highest in the Zfx IntraScan model (153.80 μ m). The CS 3500 model had the lowest median maximum trueness values (450.75 μ m); the E4D model had the highest values (2680.55 μ m). Individual image and video sequence data captures showed similar median average trueness values ($P>.05$); the median maximum values of individual images were higher than those of the video sequence ($P<.05$). Swept source optical coherence tomography (SS-OCT) exhibited higher trueness values than those of other scanning principles ($P<.05$). The FastScan and True Definition, which require powder coating, showed significantly better trueness than other IOSs that did not require powdering ($P<.05$). The E4D, PlanScan, and

Zfx IntraScan models had an increased tendency to produce images with imperfect surface features and to round off sharp edges.

Conclusions: The E4D and Zfx IntraScan models did not perform as accurately as the other IOSs. The data capture principle of SS-OCT and the mode of individual image acquisition exhibited inferior trueness. The FastScan and True Definition, which require powder coating, exhibited better trueness. The qualitative aspects of the IOSs varied in terms of polygon shapes, sharp edge reproducibility, and surface smoothness. (J Prosthet Dent 2018) Author: The Journal Of Prosthetic Dentistry , Accessed 29th February 2020

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IPS e.max®



What is IPS e.max?

IPS e.max® is a Lithium Disilicate glass all-ceramic that delivers optimum aesthetics, translucency, durability and strength. With up to 10 years of clinical evidence, over 80 million restorations and a 97.6% survival rate, it is a proven system that provides highly durable and highly aesthetic restorations which makes it an affordable alternative to porcelain bonded crowns and zirconia based restorations.

Technical Features:

IPS e.max can either be pressed or milled via our in-house Sirona inLab CAD/CAM milling machine and provides a flexural strength between 360 – 500 Mpa. It is recommended for single unit anterior crowns or posterior crowns, 3 unit anterior bridges, partial and full anatomical crowns, minimal veneers (from 0.3mm), inlays & onlays and screw retained implant crowns.

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IPS e.max is a bio-compatible material and is used for highly aesthetic solutions due to its true to nature shade behaviour. IPS e.max promotes durable restoration due to the high flexural strength and is suitable with minimal invasive preparations. There is no condensation shrinkage thus providing a precise fit and reduce adjustment time. IPS e.max restorations offer flexible cementation. *Contact Kash on 0208 520 8528 for further information.*

Before



After



Working Times (please do not include collection & delivery, weekends or bank holidays within working times)

Crown & Bridge

Service	Working Days
Executive (Pre-booking only)	3 Days
Private	5 Days
NHS (Standard)	7 Days
Smile Design	5 Days
Implantology	Case dependent

Working Days

Working days are the days spent within the laboratory, please do not include collection & delivery, weekends or bank holidays within the working times.

Express Cases

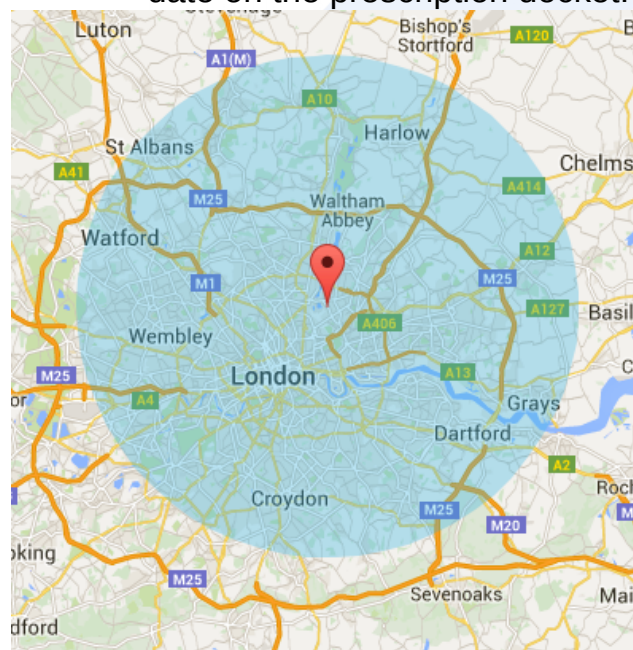
If you require a case to be completed faster than the times quoted, please call or email us first and we will do our best accommodate the case within our workload.

Prosthetic

Service	Working Days
Swissedent (All inclusive)	5 Days
Private	5 Days
NHS (Standard)	7 Days
Additions & Repairs	1 Day
Chrome Framework	10 Days
Implantology	Case dependent

Arranging Collections + Deliveries

To arrange a collection, please call or email us by 5pm prior to the day of collection. All of our drivers leave the premises by 9.30am, any collection requested after this time cannot be guaranteed for the same day. Deliveries cannot be guaranteed for a certain time, please book patients in a day after delivery date on the prescription docket.



Collection & Delivery Service

Our Dental Laboratory operates a free collection & delivery service across Greater London and much of Essex and Hertfordshire (see Photo).

We provide a consistent postal service to areas outside of our collection & delivery areas. To view our collection & delivery radius & print out pre paid labels go to:

www.bremadent.co.uk/downloads

POSTAL SERVICE UPDATE:

Royal Mail have stated the 'Pre-paid' postal service we offer can take up to **10 working days** to deliver. We will still continue to keep this service available to our client on that understanding. We would encourage using a 'Special Delivery' service for next day delivery as this is guaranteed, tracked and signed for.



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