DECLARATION OF NATHANIEL E FRANK-WHITE

1. I am a Records Request Processor at the Internet Archive. I make this declaration of my own personal knowledge.

2. The Internet Archive is a website that provides access to a digital library of Internet sites and other cultural artifacts in digital form. Like a paper library, we provide free access to researchers, historians, scholars, and the general public. The Internet Archive has partnered with and receives support from various institutions, including the Library of Congress.

3. The Internet Archive has created a service known as the Wayback Machine. The Wayback Machine makes it possible to browse more than 450 billion pages stored in the Internet Archive's web archive. Visitors to the Wayback Machine can search archives by URL (i.e., a website address). If archived records for a URL are available, the visitor will be presented with a display of available dates. The visitor may select one of those dates, and begin browsing an archived version of the Web. Links on archived files in the Wayback Machine point to other archived files (whether HTML pages or other file types), if any are found for the URL indicated by a given link. For instance, the Wayback Machine is designed such that when a visitor clicks on a hyperlink on an archived page that points to another URL, the visitor will be served the archived file found for the hyperlink's URL with the closest available date to the initial file containing the hyperlink.

4. The archived data made viewable and browseable by the Wayback Machine is obtained by use of web archiving software that automatically stores copies of files available via the Internet, each file preserved as it existed at a particular point in time.

5. The Internet Archive assigns a URL on its site to the archived files in the format http://web.archive.org/web/[Year in yyyy][Month in mm][Day in dd][Time code in hh:mm:ss]/[Archived URL] aka an "extended URL". Thus, the extended URL http://web.archive.org/web/19970126045828/http://www.archive.org/ would be the URL for the record of the Internet Archive home page HTML file (http://www.archive.org/) archived on January 26, 1997 at 4:58 a.m. and 28 seconds (1997/01/26 at 04:58:28). The date indicated by an extended URL applies to a preserved instance of a file for a given URL, but not necessarily to any other files linked therein. Thus, in the case of a page constituted by a primary HTML file and other separate files (e.g., files with images, audio, multimedia, design elements, or other embedded content) linked within that primary HTML file, the primary HTML file and the other files will each have their own respective extended URLs and may not have been archived on the same dates.

6. Attached hereto as Exhibit A are true and accurate copies of browser screenshots of the Internet Archive's records of the archived files for the URLs and the dates specified in the attached coversheet of each printout.

INTERNET ARCHIVE
archive.org

7. I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

DATE: July 3, 2024

Nathaniel E Frank-White

Nathaniel E Frank-White

EXHIBIT A

http://web.archive.org/web/20170420003751/http:/theorthocosmos.com:80/quick-look-dental-monitoring/

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A Quick Look at Dental Monitoring

APRIL 17, 2017 BY SCOTT FREY — LEAVE A COMMENT

What is Dental Monitoring?

We are constantly looking for innovative treatment methods and products that can help make treatment more convenient and comfortable for patients. Recently, **we had the Dental Monitoring folks come by the office and I think the 3D monitoring product has good potential to help practices; however, they will need to adjust their business model slightly to achieve maximum impact.**

Dental Monitoring is a software service that allows patients to use their smart phones to capture tooth movements and communicate them to their orthodontist. This comes in the form of simple 2D photo/video monitoring of tooth position and full 3D monitoring and rendering of tooth movements.

They currently offer three separate plans, which are billed per patient on a monthly basis and you can cancel at any time:

TO GET STARTED	TO GO FURTHER	
PHOTO Monitoring	Monitoring 3D LIGHT	Monitoring 3D FULL
$7.90 /month	$9.90 /month	$15.90 /month

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Get access to our advanced orthodontic community, exclusive member content, and downloads— for free.

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The Power of Data in Orthodontics

A Quick Look at Dental Monitoring

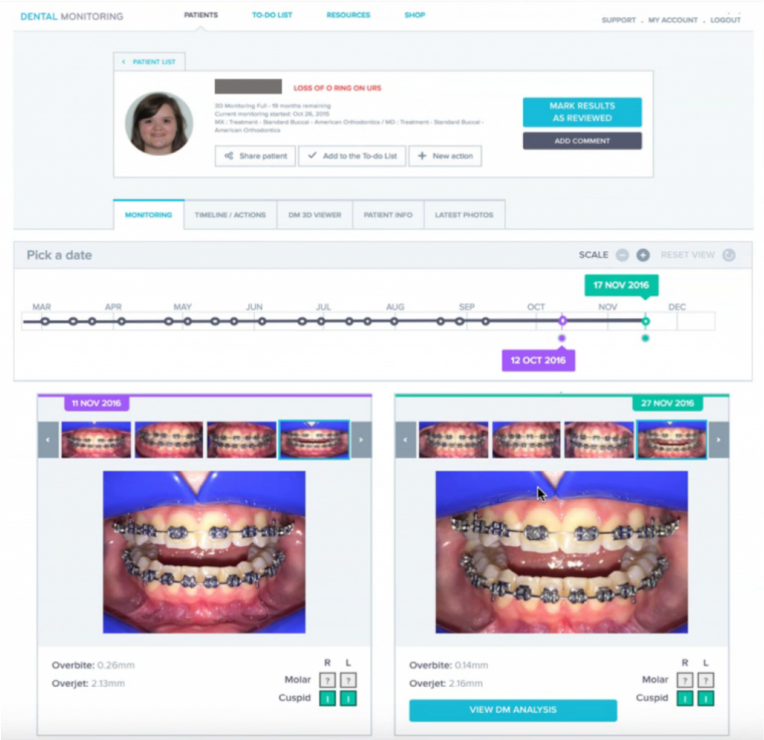
The Top 3 Reasons Orthodontists Disapprove of Invisalign

Greater Practice Profitability With Invisalign

✓ Communication platform	✓ Communication platform	✓ Communication platform
✓ Emergency exams	✓ Emergency exams	✓ Emergency exams
✓ Visual notifications	✓ Visual notifications	✓ Visual notifications
✗ Quantitative notifications	✓ Quantitative notifications	✓ Quantitative notifications
✗ Clinical assistance	✓ Clinical assistance **every month**	✓ **Unlimited** Clinical assistance
✗ 3D calculation	✓ 3D calculation **every month**	✓ **Unlimited** 3D calculation

* Get discounts on our « 3D monitoring full » products with our loyalty program

- **Photo Monitoring ($7.90/mo, 24hr turnaround)** – *Intra-oral pictures are automatically organized and evaluated by their technicians* for broken appliances, poor hygiene, whether established treatment goals have been met and can be used in retention to check for tooth movement.
    - **DM GoLive (12hr turnaround)** – Same as photo monitoring, but designed for Invisalign patients, and additional photos are taken with aligners in place. Based on the position of the teeth relative to the aligners and their aligner fit, the patient is given a 'Go' or 'No Go' to advance to the next aligner. You can specify whether the patient must take photos before each aligner change or at set intervals.
- **3D Monitoring Lite ($9.90/mo, 48hr turnaround)** – The doctor must upload an .STL file of an initial intra-oral scan (can also upload CBCT to show roots). With the photos and the locators on the the cheek retractors, the software and technicians are able to generate a 3D model of the current tooth position to within 7-9microns (company data). 3D Evaluations can only be done once a month.
- **Full 3D Monitoring (15.90/mo, 48hr turnaround, volume discounts)** – The Full plan is the same as the Lite, only with unlimited 3D evaluations that can be performed during treatment. Both the Lite & Full 3D monitoring allow for quantification of dental movements.

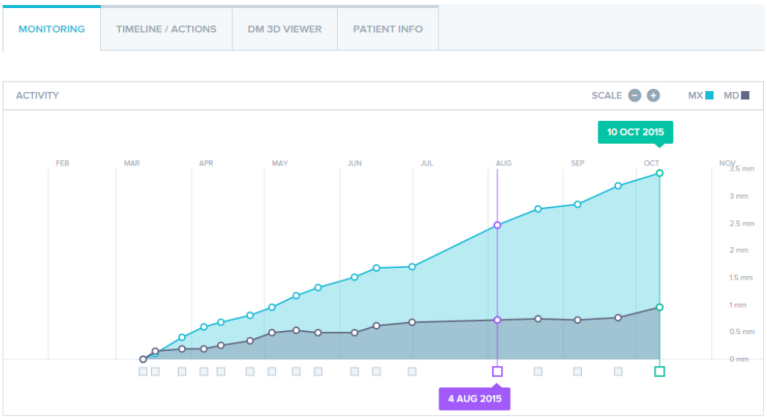


How is this Useful to Your Practice?

The Dental Monitoring service is built on the premise that everyone now carries a smartphone; however, that also means that photo monitoring and FaceTime appointments can be implemented without purchasing additional software. We routinely do this for international and out-of-state patients already so **I don't see the photo monitoring plans offering much value to the practitioner.**

The DM GoLive, is an interesting concept, but weekly photo submissions add additional compliance burdens on patients and in my view would be counterproductive to treatment. *The patients compliant enough to complete these weekly evaluations aren't the ones need the service to help titrate their aligner wear effectively.* Additionally, all of this can be implemented in-house with a team member assigned to review Invisalign compliance without additional costs.

As opposed to the 2D photo monitoring products, I think there is huge potential in the 3D monitoring plans. Since the 3D modeling is quite accurate (on par with intra-oral scanners) and quantification of individual tooth movements can be performed, as you can see in the chart below:



Remote 3D modeling, opens the door to a few important applications:

- **Scheduling Optimization** – By using 3D monitoring over a specific time period with carefully selected cohorts, you can refine appointment intervals and your mechanics to optimize your schedule.
- **Reduced Appointments?** – *Promises of reducing the number of appointments fall a little bit flat because only appointments that don't require the orthodontist for activation can be eliminated for the patient*; otherwise, you are already over-scheduling. Where you will save appointments would be with elastic correction, self-activated appliances like Invisalign, specific space closing mechanics, etc., but this can all be done with in-house photo monitoring.
- **Virtual Retention Visits** – With 3D monitoring, the stability of alignment can be evaluated without an official visit (ex: while patients are away at college). However, they need to implement pay-per-monitoring pricing for this to be most effective.

monitoring pricing for this to be most effective.

- **Treatment Research & Data-Mining** – The ability to quantify individual tooth movements is going to be a huge benefit to researchers, and will help independent practitioners evaluate new products in a more objective fashion. One of the biggest problems in assessing treatment acceleration modalities is that many of the studies lack interim data between wire intervals so the exact impact on the rate of tooth movement is unclear.
- **Appliance Fabrication** – The service will become exponentially more valuable when the 3D modeling can be used to fabricate appliances and retainers while saving the patient a visit. Retainers to recapture slight shifting for out of town patients can be fabricated and sent without a visit, customized finishing archwires can be fabricated in advance of appointments, refinement scans for additional clear aligners with Invisalign, and digital removal of brackets or attachments from patient scans can be used to make final retainers are just a few of the possibilities.

The current verdict on this service is that there is big potential, but it's main value is in the remote 3D monitoring. If you want photo monitoring only, patients already have a smart phone and the means to provide this data. Additionally, I would love to see them implement a pay-per-scan option, since many of the applications are better suited for this than a monthly plan. This is especially true for retention patients.

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Taco Bell addict. Board Certified Orthodontist at FreySmiles.
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