

AFT System One was designed and patented by AFT Dental System allowing the dental clinic to obtain facial mouth records with the utmost precision in a simple, fast and free of annual licenses.

The digital flow in dentistry requires the integration of the facial anatomy for the correct planning and realization of the treatments. The most complicated element traditionally has been the integration of the mouth and jaws in the correct position, not becoming effective nor simple, the realization of plans based on 3D representations.

In recent years, several techniques have been used to incorporate the patient's face into the planning: photographs, dynamic representations through video, or photogrammetric-based scanners, but the imprecision of some, the complexity of others or the high cost of the latter, turn the clinical application difficult.

The use of the facial scanner, with creation of high definition files and .obj format has brought a substantial change in digital flow. The .Obj files can be simply and quickly incorporated into the most common CAD applications in prosthetics (Exocad) or planning in surgery (Nemotec), thus achieving precise and accurate planning, allowing a real digital flow in 3 dimensions.

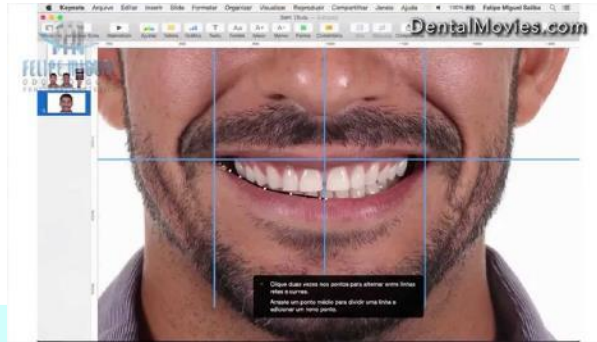
The acquisition of the facial scanner with AFT Dental System is based on the use of frontal and occlusal aligners that allow the correct replacement of the dental arches in the facial mass, which facilitates the actual planning of the cases. On the other hand, the frontal aligner allows the error-free restoration of the different scans to achieve adequate representation of the patient's mimicry.

The protocol is extremely simple, easy to perform, fast and economical, which allows us to define a digital flow protocol based on a real 3D that facilitates the clinical, functional and aesthetic result, reducing invasion, time of work and costs and, allow to achieve a real digital flow in the clinic, within reach of all professionals.

Our main goal is to provide a modern, efficient and accurate solution to the dental industry worldwide, benefiting both the patient as well as the clinical team and dental technicians.

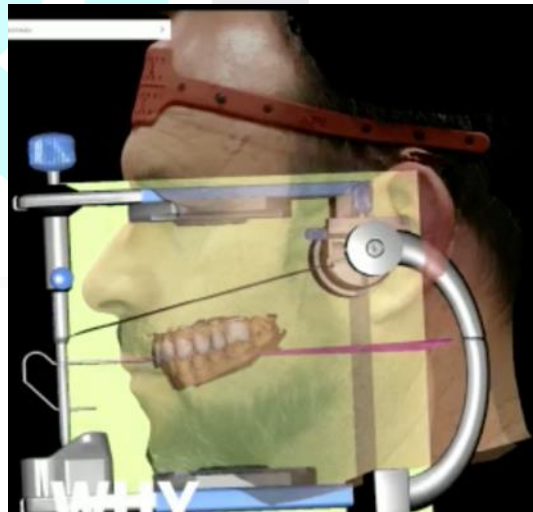
➤ What is AFT System One?

The facial images in 2D marked the beginning and transmitted the immense importance that the correct dental aesthetic planning of the patient from the facial traits of itself.



2D Planning with photos

By introducing the 3D facial scan that brings us the full size of the patient's head, the 2D image has become outdated and very limited in the face of all the advantages provided by 3D.



3D Planning with AFT System One

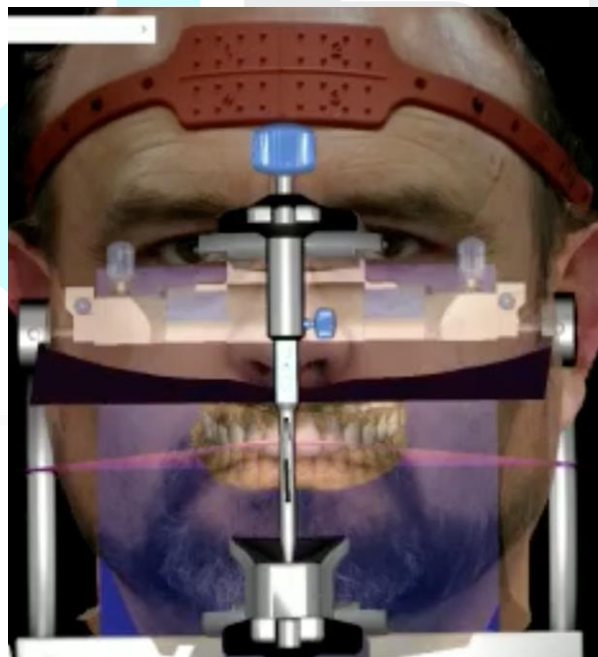
Why is facial registration in 3D so important for dentistry?

We have all the aesthetic and functional information of the patient



With a simple mouse movement, we can rotate the patient's face to see different positions

By working with the AFT Dental System protocols, we have managed the patient's Frankfurt and Camper plans to accurately and easily assemble in virtual articulator.



Exocad-based virtual articulator (Frankfurt and Camper plans)

You will **no** longer need to use the complex and heavy facial arcs and mounts.



AFT System One allows to obtain by means of a simple and fast process all the necessary information of the patient in 3D.

AFT use the digital face as a reference to find approximately patient's condyl rotation axis in the same way as a fysical/analogical facebow, getting the same results as using an semi-adjustable analogical articulator with standard parameters and also getting at the same step facial details and 3D position of the lips.

Click [here](#) to watch the video.

- What is AFT System One composed of?



- 1) AFT Face Data: composed of a scanbody teeth and a scanbody face that make possible the correct position of the occlusal plane in the 3D mouth facial design, both for patients with teeth and edentulous.



❖ ScanBody Face

This scanbody, of continuous use, can register different positions of the smile giving even the 3D facial movement.

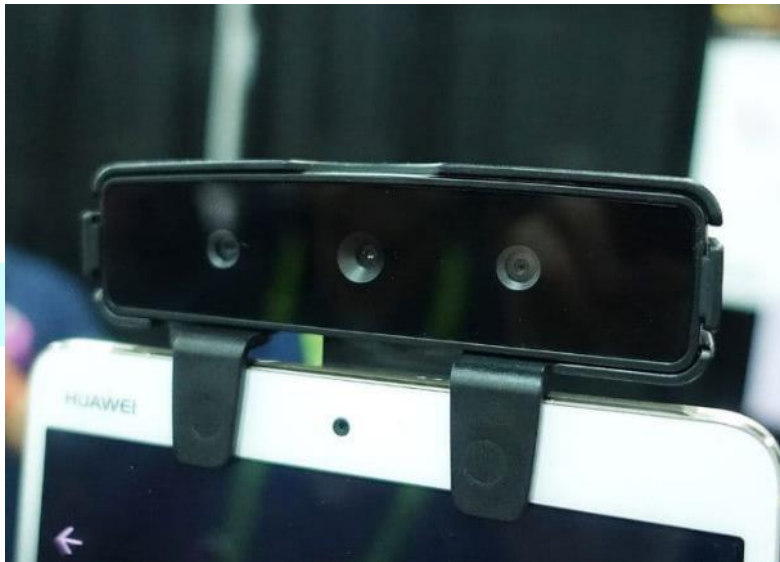


❖ ScanBody Teeth

This scanbody makes possible the exact placement of the upper jaw inside the 3D digital face being able to replace the physical facial arch, and very accurately positioning the jaws in the virtual articulator. You can simply measure Bennett's angles and condillary guides.



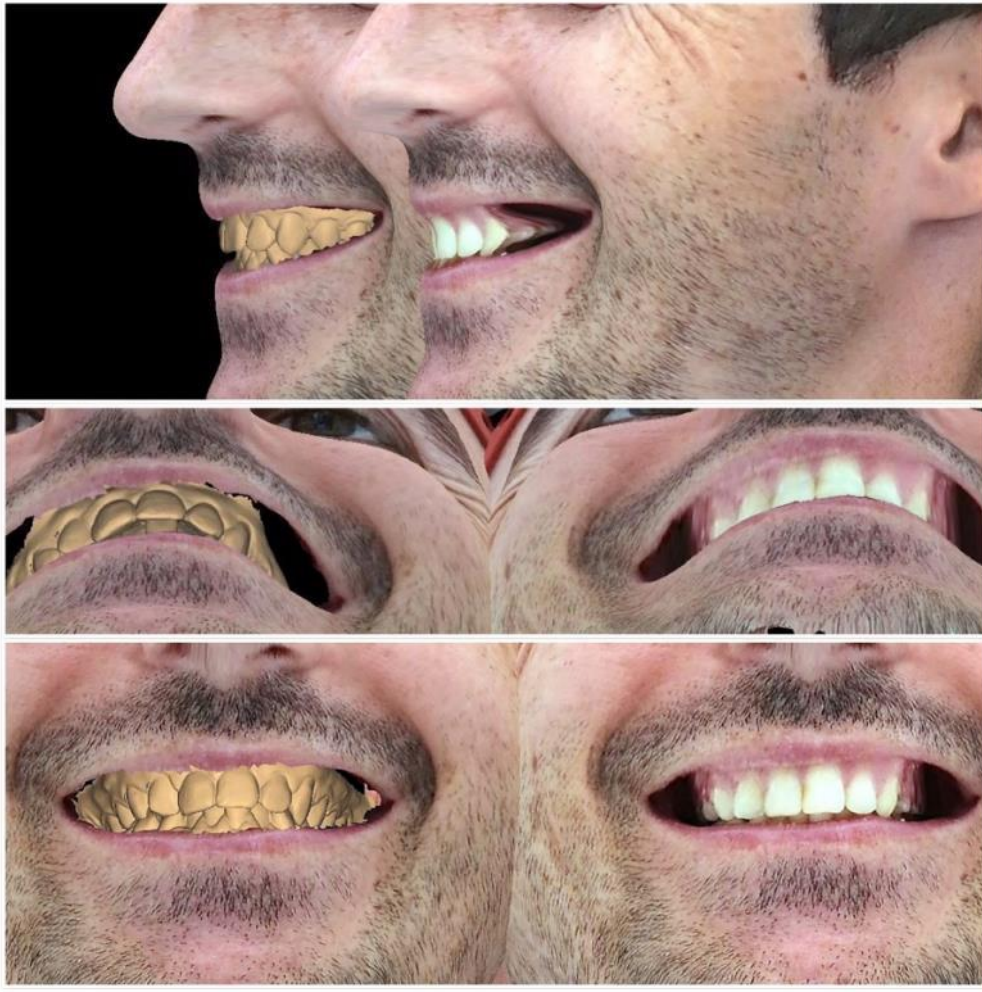
- 2) Bellus 3D Pro Camera: This scanner produces a large deformation in the intraoral nerve cavity, however when coupled with our scanbodies and protocols makes accurate work possible for 3D digital dentistry by correctly reproducing the patient's lips.



Next, we will show a comparison between AFT System One VS Bellus 3D.

In the images of the right performed only with the surface facial scanner Bellus 3D Face Camera we visualized the deformation of the intraoral nozzle cavities. Only with the scanner is it impossible to carry out an alignment because of the large deformation produced.

In the left images we have the STL files of the patient models in the correct position relative to the 3D digital face made with AFT System One and its protocols.



Left images - work done with AFT System One.

Right images - we see the large deformation produced by the facial scanner.

- 3) Last generation Tablet.
- 4) Support or stand for tablet.
- 5) One-year technical support.
- 6) One-year warranty.
- 7) Setting the appropriate parameters and predetermined values to achieve optimal scanning.
- 8) Protocols and training for both the dental clinic and the laboratory

The AFT Dental System is a worldwide pioneer in capturing 3D facial records for digital dentistry with precision.

What does AFT mean? **A**lign **F**aces and **T**eeth with the exact placement of the upper jaw inside the 3D face only achieved with very refined protocols and techniques, achieved after years of research and development.

The aim of the AFT Dental System is to facilitate a 3D facial technology to any dental professional in a reproducible, easy and accurate way.

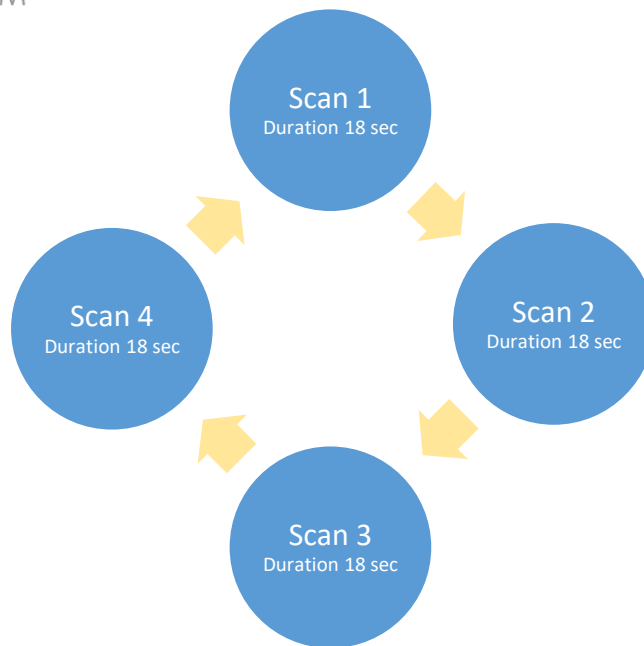
For this, we have a **PRACTICAL AND SIMPLE MANUAL** where we explain:

- Connection and correct position of scanner and tablet.
- How to avoid faulty scans.
- The perfect scan distances.
- How to avoid cropped scans.
- How to properly illuminate the patient.
- How to calibrate the scanner.
- How and where to position the patient for the scan.
- Proper operation and use of the tablet and its applications.
- Root paths to find the saved files.
- Techniques for not blocking the tablet's memory.
- Copy the files to the PC.
- How to use AFT scanbodies correctly.
- How to align faces to dental models accurately.
- How to assemble the virtual articulator, condylar guides and Bennett angles of the patient.
- Techniques to plan distance with your dental technician.
- How to get a correct scanbody teeth STL file.

Additionally, we provide technical support via email or WhatsApp to provide a fast and effective service to our customers.

- What workflow should an AFT System One clinic perform?

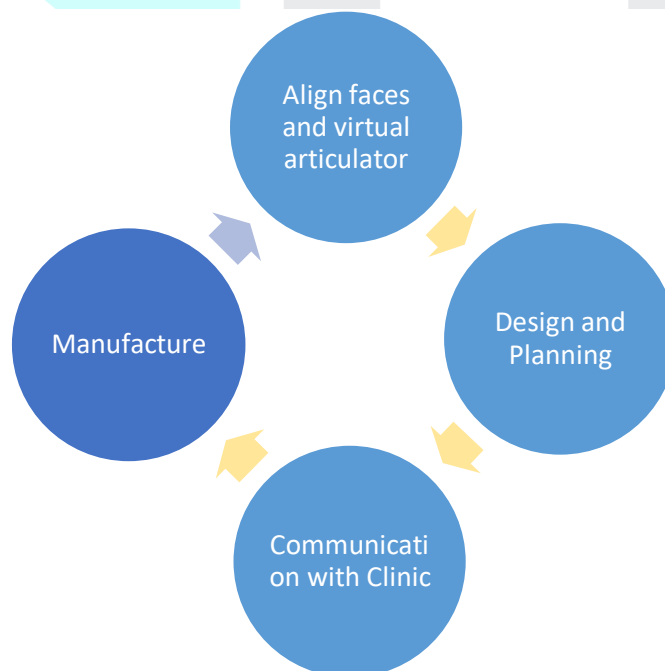
The clinic performs the different facial scans to the patient. We recommend that you do four scans.



The total duration of clinical work is no longer than 10 minutes.

- What is the workflow that the laboratory should perform?

The lab must import the files into your usual digital drawing program. The only requirement is that the program must accept colour OBJ files. Currently, the drawing software that accepts this type of files are Exocad and Nemotec, among others.



➤ What are the advantages of using AFT System One?

- We get functional movements to work since we can assemble accurately and quickly in the virtual articulator
- We obtain facial registration by model, obtaining all the patient's facial information (medium lines, plans, mouthpieces) providing a better diagnosis. .
- We improved the clinic's communication with the laboratory because we can send the patient to the lab and carry out a correct design, planning and treatment.
- Through a free video conferencing service, such as Skype, you can share your computer screen to plan and design easily with your dental technician.
- We validate the 3D budgets with the patients.
- We reduce patient visits by eliminating testing proofs.
- We reduce the invasion in the patient.
- Study, plan and value 3D dental cases with complete accuracy.
- We digitize workflows even without having to use an intraoral scanner.
- We provide a real digital stream in the clinic, within reach of all professionals.

Click [here](#) to watch the video.

Click [here](#) to see the case of Dr. Antonio Bowen Antolín published in a journal of diffusion

➤ Is it necessary to have an intraoral scanner?

The AFT System One is technologically independent, so the dental clinic does NOT need an intraoral scanner to benefit from its advantages. However, it is a perfect match for an intraoral scanner.

If you do not have an intraoral scanner, the scanbody teeth should be sent to the laboratory along with the patient's models for scanning them on a flatbed scanner.



DENTAL SYSTEM

- Can it be combined with a CBCT?

Yes.



- What is the AFT Dental System recommended for?

We recommend the use of the AFT System One for any dental case as we incorporate the patient's face as a reference to assemble the cases in virtual articulator getting the movements of right and left laterality and also the protusion.

DENTAL SYSTEM