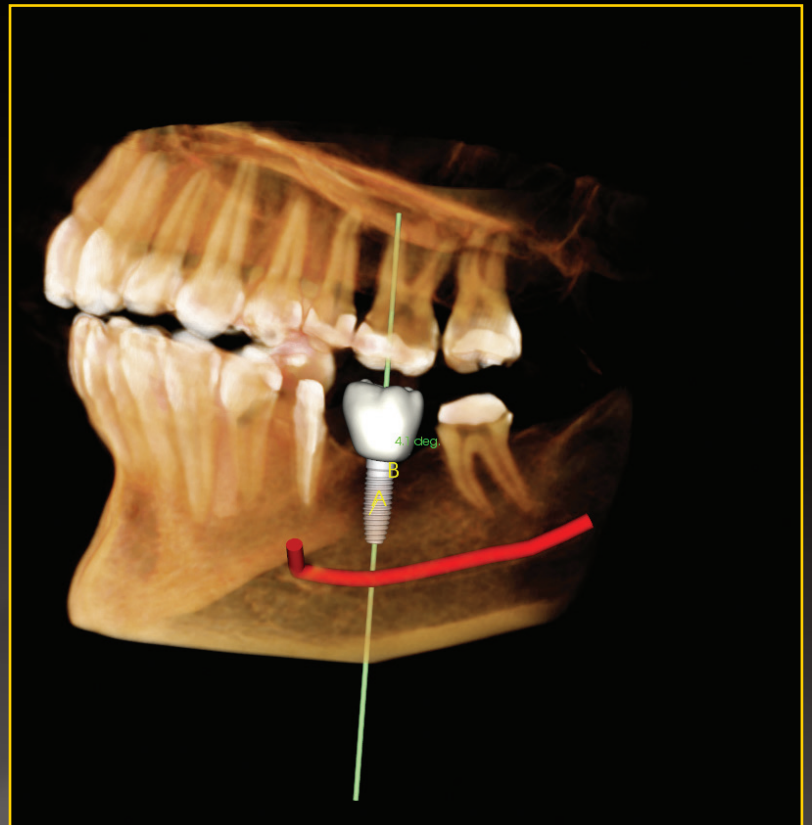


# 3D DIGITAL IMAGING



INSTRUMENTARIUM



# 3D DIGITAL IMAGING

We are pleased to provide the latest advances in dental imaging technology in our office. It is part of our commitment to bringing you the best in patient care. Our imaging system offers:

- Comfortable and easy patient positioning
- Precision in diagnostics and treatment planning
- Technology to ensure patient safety in radiation exposure levels

3D x-rays yield a wealth of information that is used to precisely plan for treatment before any procedure begins. Your anatomy, seen in three dimensions, can be enlarged, rotated, and divided in any direction, thus revealing critical information not always revealed with two-dimensional images. Having this kind of technology at our fingertips allows us to better diagnose and treat a wide variety of dental-related issues with increased accuracy and efficiency—which is better for our patients!

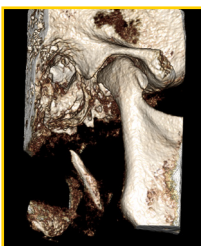
3D imaging is critical for more predictable treatment results in procedures such as implant planning, oral surgery, orthodontics, temporomandibular Joint (TMJ) analysis, facial pain therapy and more.



**IMPLANTS:** Cross sections, not possible with standard dental x-rays, allow us to accurately measure the bone to choose the best implant for the site.



**ORAL SURGERY:** Knowing the exact location of teeth in relation to other dental structures, such as nerves and sinuses, allows for the safest tooth removal procedures.



**TMJ:** With a 3D scan, we can view joints and adjacent structures from every angle, leading to better planning for the treatment of jaw, facial and neck pain.

# HOW ARE 3D IMAGES ACQUIRED?

Taking a 3D image is a simple process for both the patient and the clinician. You will be comfortably positioned in the unit and asked to place your chin on the chin rest. Positioning lights will assist the clinician to get you situated properly. The clinician will select the appropriate program and the gantry, the part of the unit that takes the x-ray, will rotate around your head.

The scan is painless, and images acquired will be available for viewing on your doctor's computer for immediate diagnosis. You will appreciate seeing these images during your patient consultation. These will really help you understand your treatment plan and why it's important.



# ARE 3D DIGITAL IMAGES SAFE?

Many patients are concerned with radiation exposure. We have chosen a system with one of the lowest radiation exposure settings in the industry. In fact, a typical 3D 5x5cm scan is 2,000 times less exposure than the average medical CT scan and less than 1/2 of the radiation exposure of an airline flight from Los Angeles to London!†

Should your treatment require a more detailed clinical image than produced with Low Dose Technology, our system will automatically adjust the settings based on your anatomy. We also will select the smallest area necessary for diagnostics to further limit any exposure.

The effective dose from a  
5x5cm 3D maxillary scan with  
Low Dose Technology™ is:



1/2



The flight from LA to London ‡

5X less

Than a Digital Panoramic X-ray ¥



2000X less

Than the Average Medical CT ‡



† Optimization of radiation protection for pediatric and adult patients in radiography and computed tomography. Proceedings of Third European IRPA Congress, June 2010.

¥ OP300 Maxio Dosimetry report, Prof. John B. Ludlow, April 2014. Based on a 5x5cm 3D scan with LDT.

# THE LATEST TECHNOLOGY

3D digital x-rays, also referred to as Cone Beam CT imaging, allow us to know more about your anatomy from all dimensions giving us the information we need to provide you with the best treatment options. This allows us to perform procedures that are often less invasive, better for you and offer predictable outcomes.

We have invested in this technology to better serve our patients and provide the best care we can. It's an investment in our practice and our patient community.



*Please ask one of our knowledgeable dental team members if you would like more information about the benefits of this incredible technology.*