

FROM DIAGNOSIS TO TREATMENT

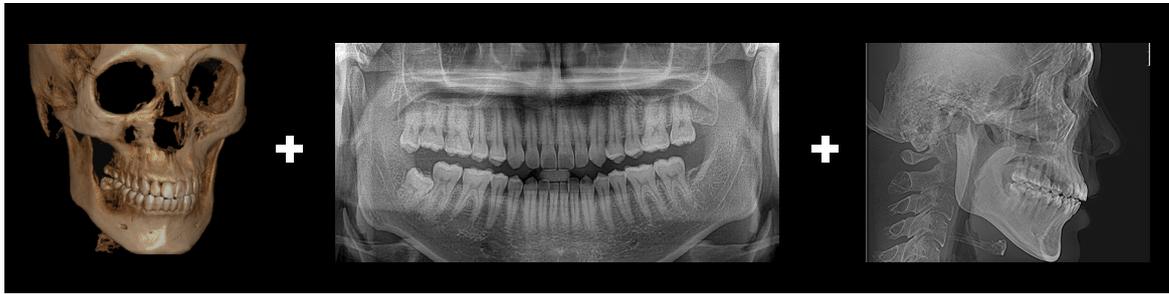


bright CT

Dentium

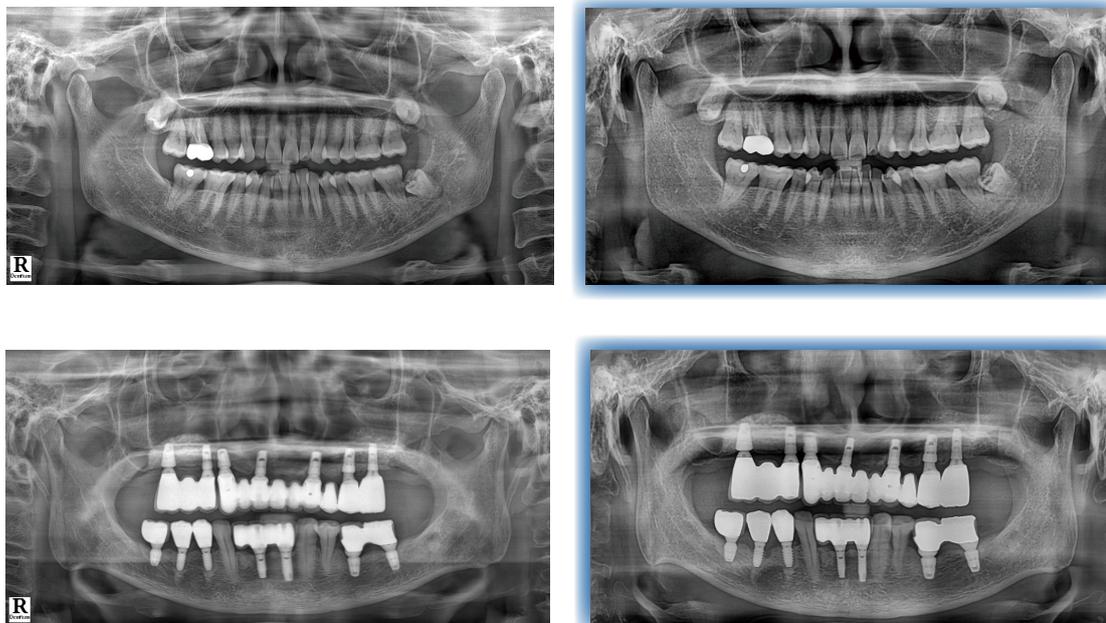
## One Scan All You Need

Capture high quality CBCT, panoramic, and cephalometric images in a single scan.  
No retakes. No extra radiation. Improved patient experience without compromising quality.



### • Virtual Panorama

Virtual panoramic image generated using CT data delivers high resolution comparable to conventional panoramic radiographs.



Conventional Panorama

Virtual Panorama

### • Virtual Cephalo (\*4T Model Only)

Reconstructed Cephalogram can be generated from CT data even in models without the cephalometric unit.



Lateral

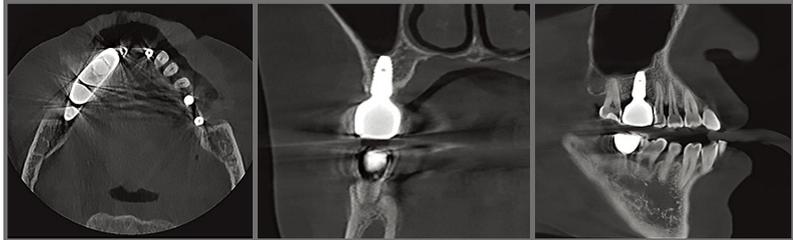
PA

SMV

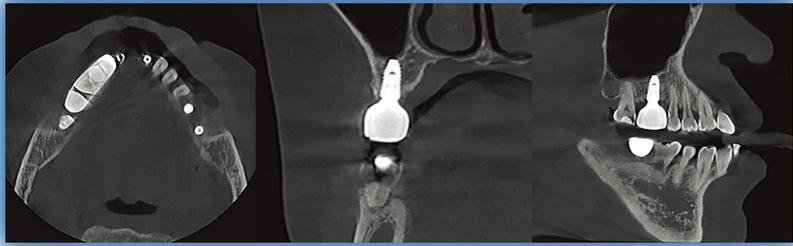
# NEXT Level MAR

(Metal Artifact Reduction)

The upgraded MAR technology automatically reduces the streak artifacts caused by metal objects and improves the quality of images for precise diagnosis.



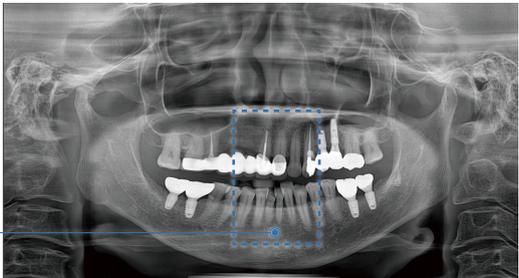
MAR OFF



MAR ON

# Accurate Anterior View

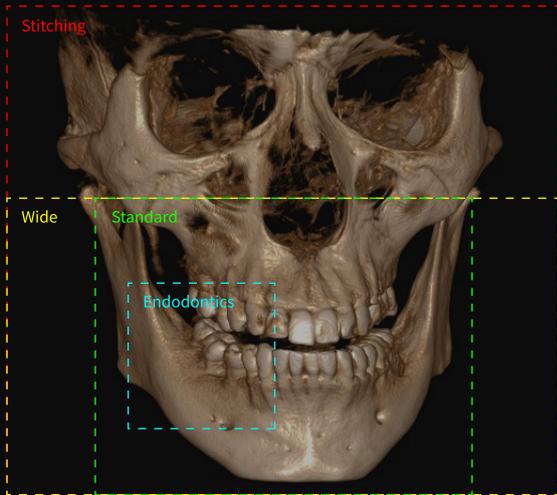
Next generation auto-focusing technology analyzes thousands of data points automatically selecting optimal images to ensure distortion free views of the aesthetic zone. This supports accurate diagnosis and planning to treat a variety of situations ranging from anterior aesthetic cases to pathology.



# Large & Free FOV (Field of View)

With a freely adjustable FOV and a maximum coverage of up to 17.5 × 15 cm, bright CT supports a wide range of clinical applications from tooth-focused localized diagnosis to facial skeletal analysis.

Clinical Model (2T Detector) For focused diagnosis and daily dental applications.

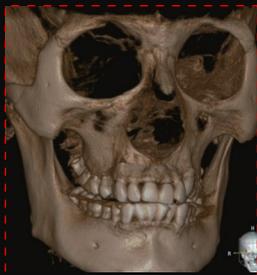


**Stitching** 17.5 x 15

**Wide** 17.5 x 9.5

**Standard** 12 x 9.5

**Endodontics** 5 x 5



17.5 x 15



17.5 x 9.5



12 x 9.5



5 x 5



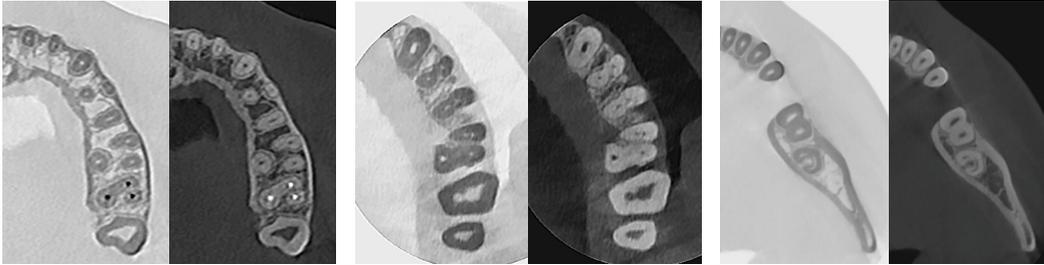
A woman with her eyes closed is using a white and green dental X-ray collimator. The device is held in front of her face, with a clear protective shield over her eyes and a small tube near her mouth. She is holding the device with both hands. The background is a bright, clinical environment.

From small details to complete overview  
Experience the power of versatility

# Specialized Diagnostic Mode

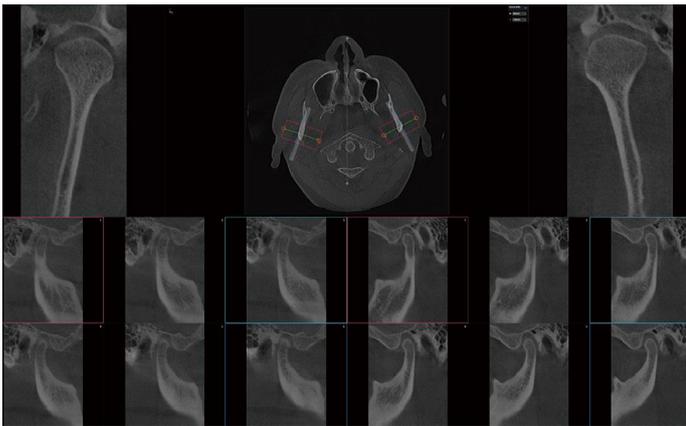
## • Endo Mode

The Invert function changes the positive radiograph image into a negative one. This can highlight certain details and subtle changes in root canals and lesions that may be less apparent in the original radiograph. Exclusive to Endo mode, this feature is designed to aid in diagnostic accuracy and efficiency.



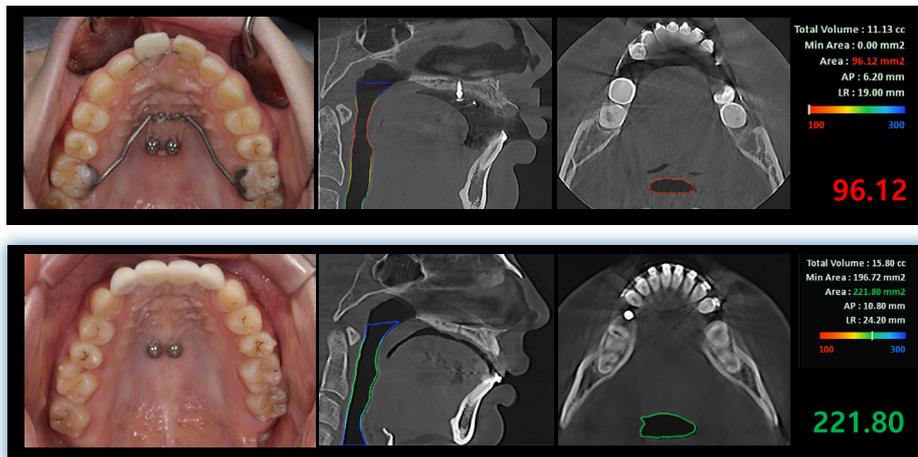
## • TMJ Mode

The Symmetry View function allows simultaneous multi-planar visualization of both left and right temporomandibular joints, enabling easy and precise comparison of joint symmetry and detection of pathology. For TMJ assessment, a single CT scan sufficiently captures all necessary information without the need for additional imaging.



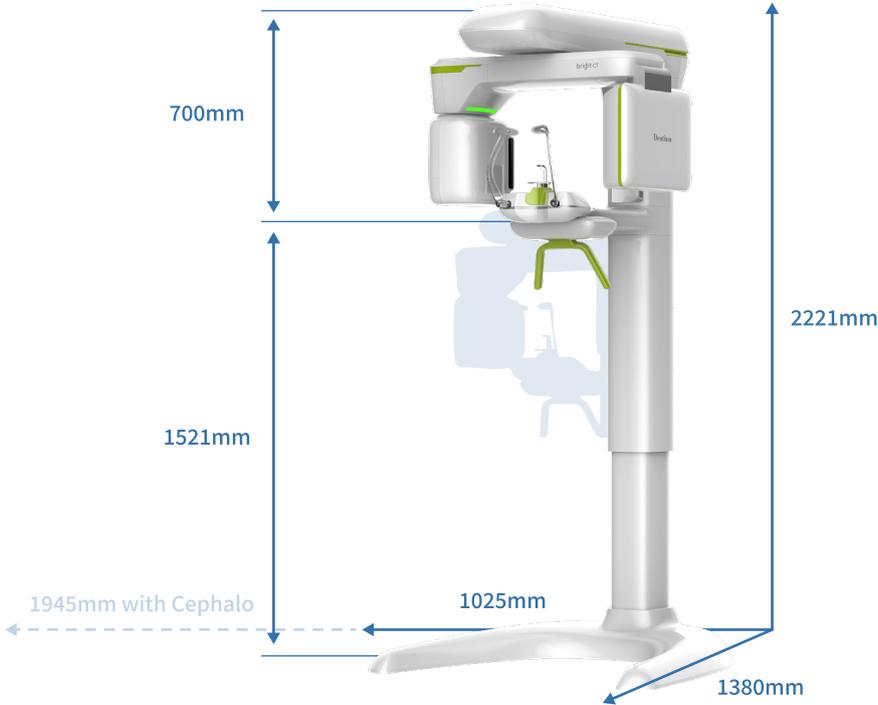
## • AI Airway Analysis

AI-powered airway analysis enhances diagnostic capability by automatically segmenting the airway and providing quantitative analysis of the airway space. This helps to visualize changes in the airway space after treatments such as orthodontics or sleep apnea treatment.



# Compact Design

With a space-efficient and compact design, the unit can be installed even in small spaces without the need for extensive office modifications. Maximize the use of your office space and optimize patient flow.



# Specification

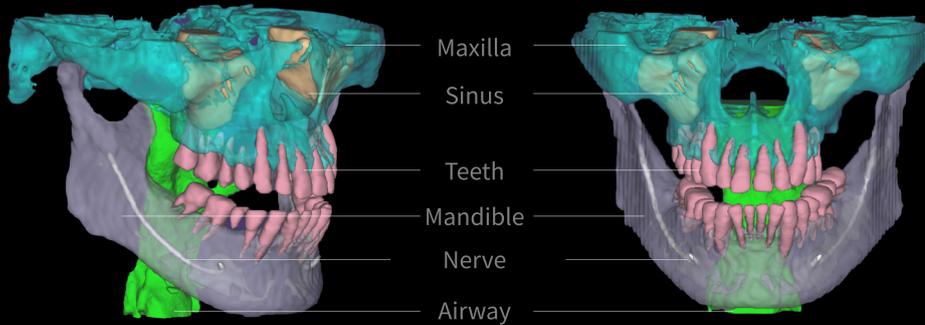
With fully adjustable FOV and high resolution imaging, bright CT provides reliable clinical solutions from diagnosis to treatment planning.

		ICT-R02-1T	ICT-R02-1TC	ICT-R02-2T	ICT-R02-2TC	ICT-R02-2TS	ICT-R02-2TSC
<b>Generator Type</b>		High frequency DC generator					
<b>Focal Spot (mm)</b>		0.5					
<b>FOV (cm)</b>		5 x 5 - 12 x 9.5		5 x 5 - 17.5 x 9.5		5 x 5 - 17.5 x 15 (Stitching)	
<b>Voxel Size (mm)</b>		0.08 - 0.3					
<b>Scan Time (Sec)</b>	<b>Pano</b>	11.8					
	<b>CT</b>	Fast / Normal / High 10 / 15 / 20					
	<b>Ceph</b>	-	6	-	6	-	6
	<b>Impression</b>	39.5					
<b>Reconstruction Time (Sec)</b>		Average 40 (depending on case complexity)					

# Practical AI Features

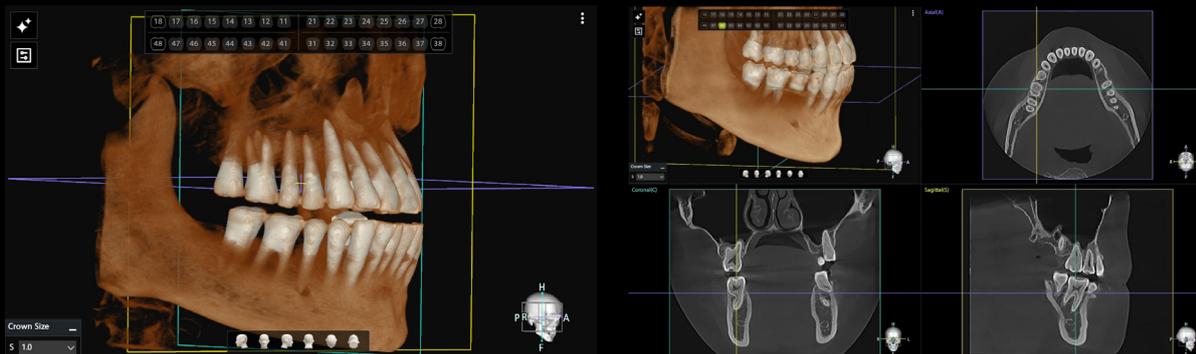
## ● AI Segmentation

The key anatomic structures such as teeth, nerves, bones, sinus, and airway are automatically segmented for easy visualization. The color coded display allows clinicians to share clear visual data with patients for effective communication.



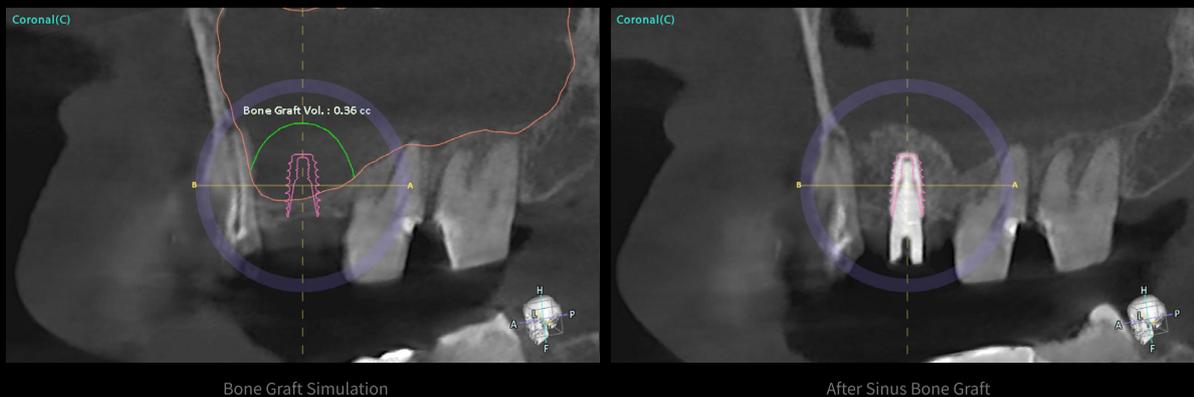
## ● AI Tooth Segmentation

Individual teeth are automatically segmented and missing teeth are identified according to the FDI tooth numbering system. Selecting a specific tooth auto aligns all the view planes to that tooth, creating a more efficient diagnostic workflow.



## ● AI Sinus Bone Graft

Based on segmented maxillary sinus data, the AI feature provides a visualization of the estimated augmented volume in areas requiring sinus grafting.

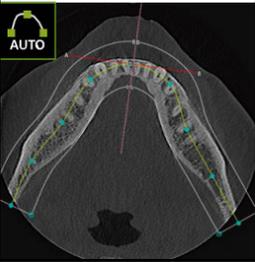




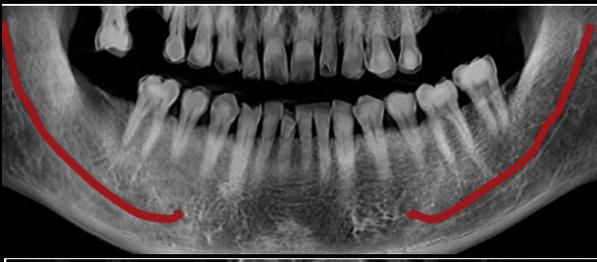
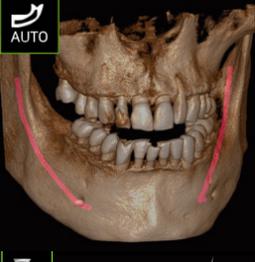
PR Video

• AI Implant Simulation

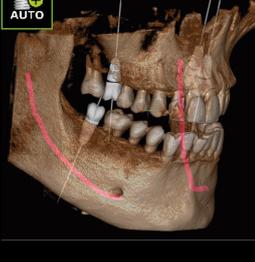
Implant planning is more streamlined with the AI-driven features. Dentium 3D Viewer automatically detected areas with missing teeth and provides key measurements, including distance to nerves, spacing to adjacent teeth, and bone height and thickness. After comprehensive analysis of these data, it proposes optimal implant and prosthesis positions.



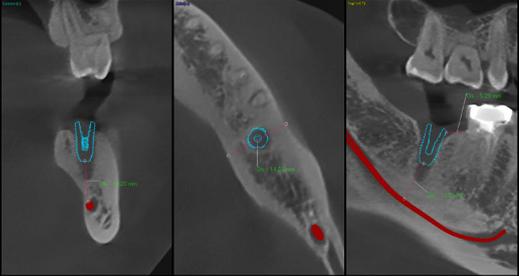
Dental Arch



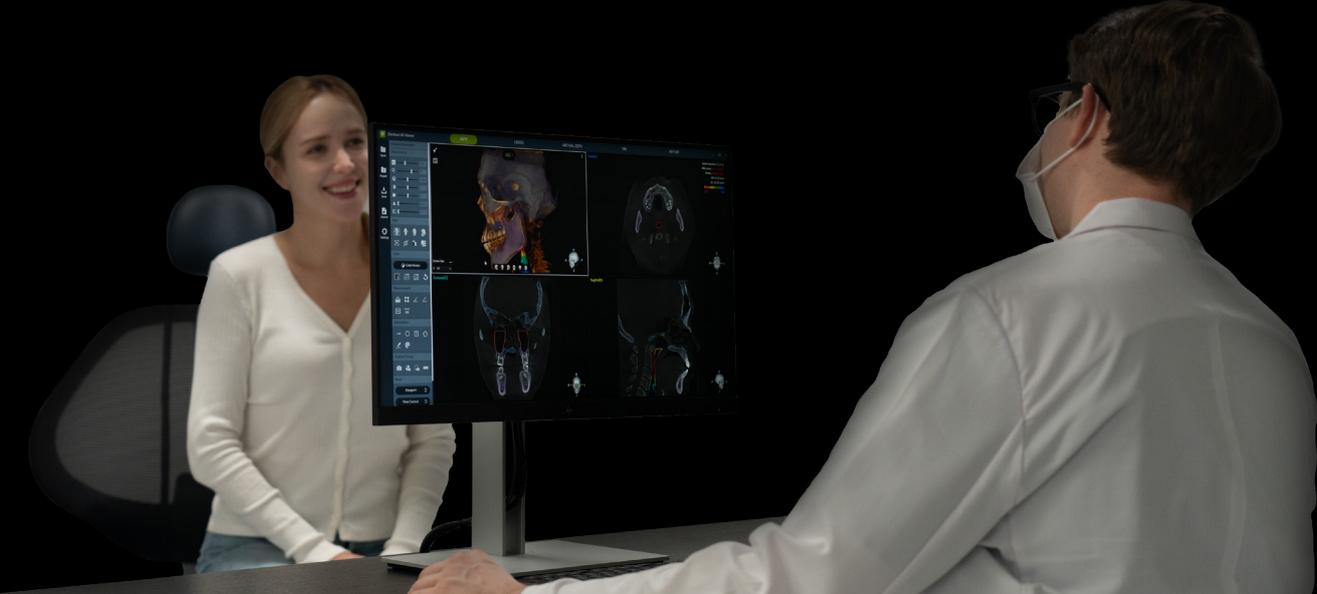
Nerve



Fixture & Crown



Automated Measurements (Nerve Canals, Adjacent Teeth, Bone Thickness)



## • AI Occlusal Plane

Dentium 3D Viewer automatically detects key bony landmarks such as ANS-PNS, orbitale, and mid-palatal suture. Based on these landmarks data, it proposes an ideal occlusal plane and facial midline.

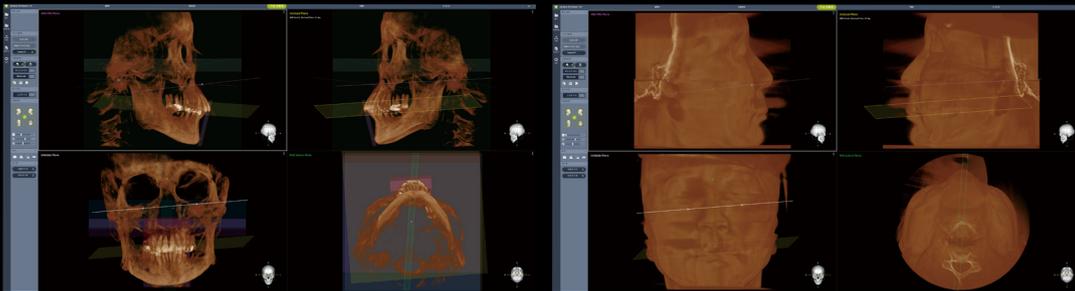
This facilitates precise planning across surgical, prosthodontic, and orthodontic treatments.

### - Prosthetic Set-up Case

#### 1. Data collection & AI driven analysis

Hard and soft tissue data including key anatomical landmark information are captured from CT scan.

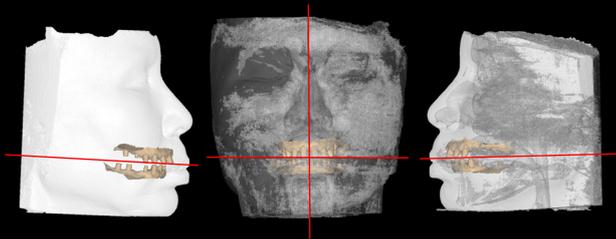
Dentium 3D Viewer automatically analyzes these data to define and visualize the the ideal occlusal plane and midline.



#### 2. Creating a digital model

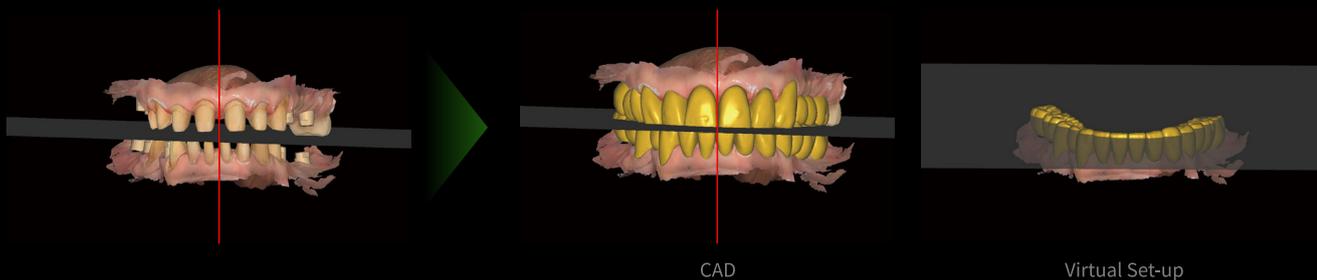
The proposed occlusal plane and midline information and scanned data can be exported as STL files.

This can be aligned with working models (IOS or medel scan) to create a complete digital model reflecting patient's anatomy.



#### 3. Designing the prosthesis

Using these reference points, design the prosthesis with accuracy and confidence.



## Do it with Dentium

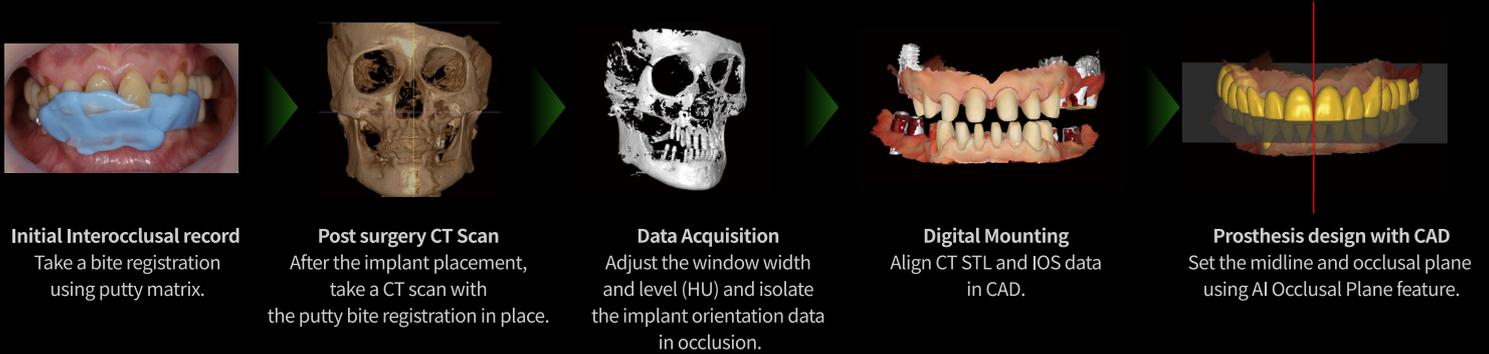
Experience a fully connected digital workflow –

from AI-driven analysis to confident treatment execution.

With rainbow™ 3D Viewer, every step is simple, predictable and precise.

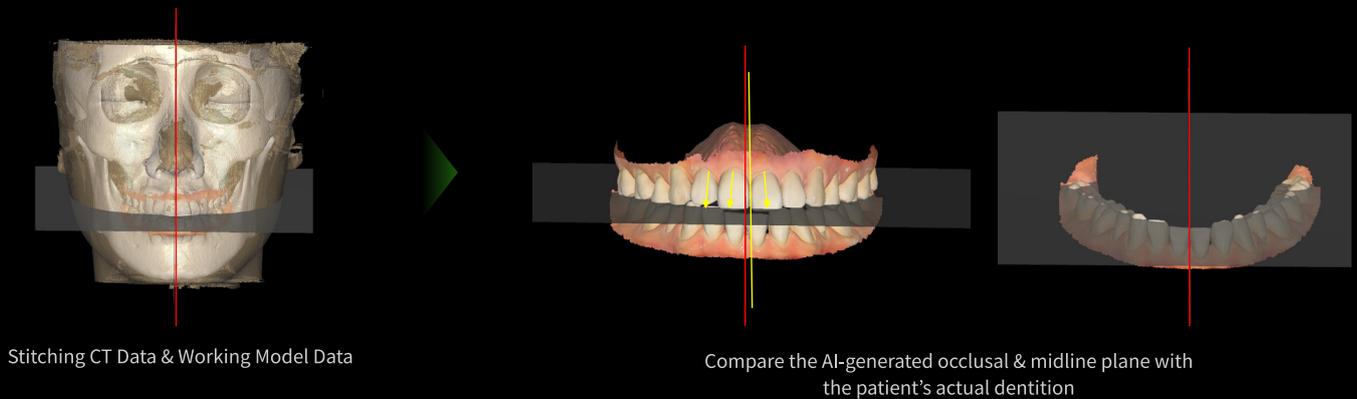
## - CT Check Bite (Digital Mounting)

Take a CT scan using bite registration to capture occlusal relationship and VDO (Vertical Dimension of Occlusion) data. Design prosthesis with accuracy and precision even in complete or partially edentulous cases with loss of posterior support.



\*Window Setting (HU) Adjustment: Adjust the displayed HU range to distinguish tissues of different densities

## - Orthodontic Diagnosis & Planning Case



# The **NEXT** in CBCT for Digital Treatment

**Dentium**

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