FROM DIAGNOSIS TO TREATMENT

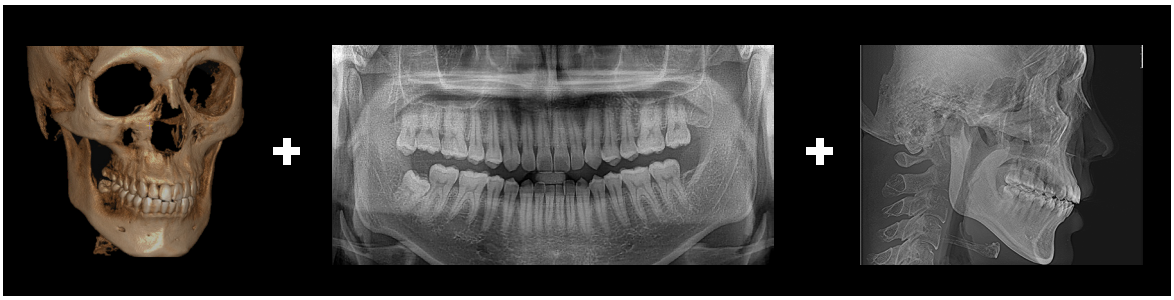
bright CT

Dentium

bright CT

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

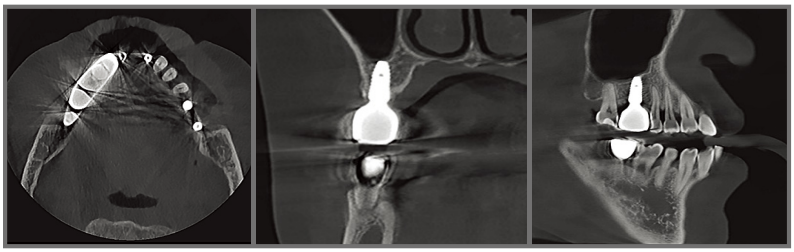
Virtual Cephalo (*4T Model Only)

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

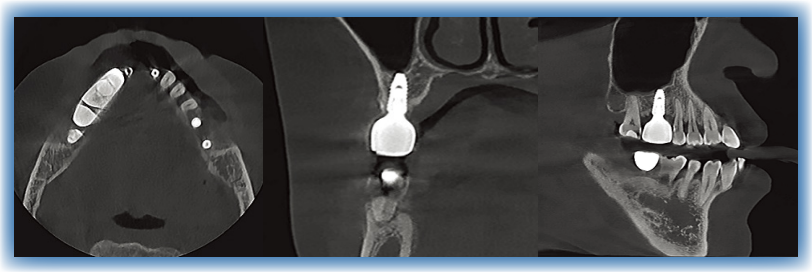
Lateral PA SMV

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.



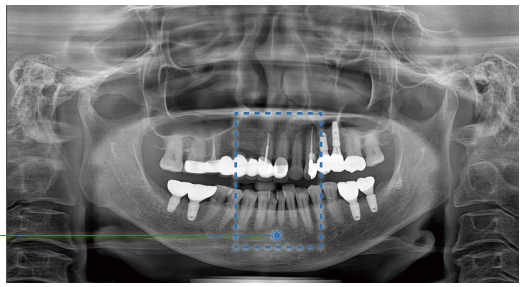
MAR OFF



MAR ON

Accurate Anterior View

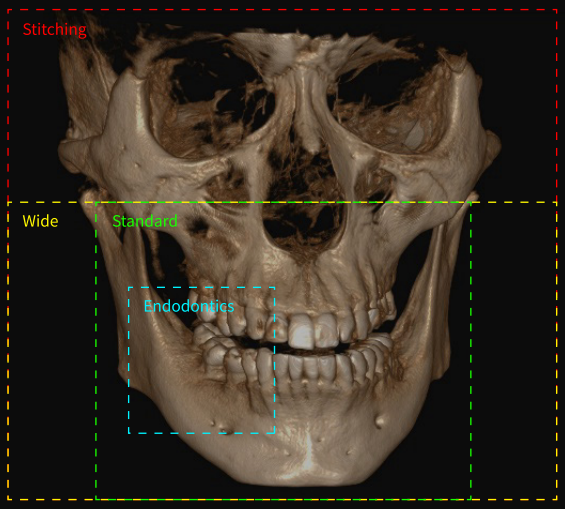
Next generation auto-focusing technology analyzes thousands of data points automatically selecting optimal images to ensure distortion free views of the aesthetic zone. This supports accurate diagnosis and planning to treat a variety of situations ranging from anterior aesthetic cases to pathology.



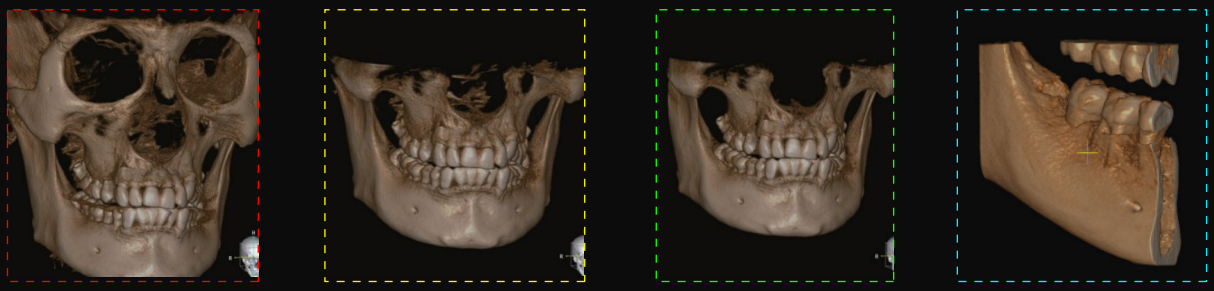
Large & Free FOV (Field of View)

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

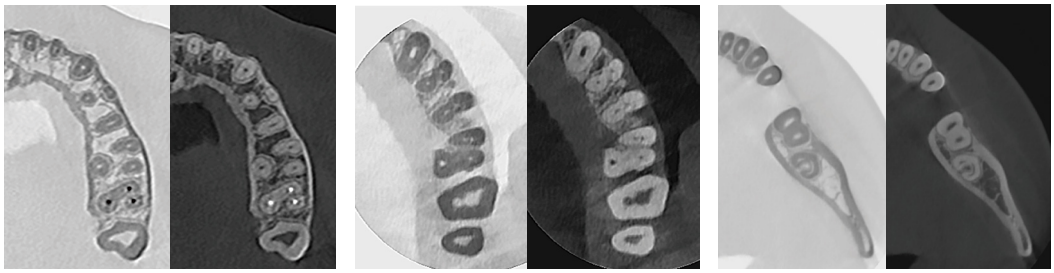
From small details to complete overview

Experience the power of versatility

Specialized Diagnostic Mode

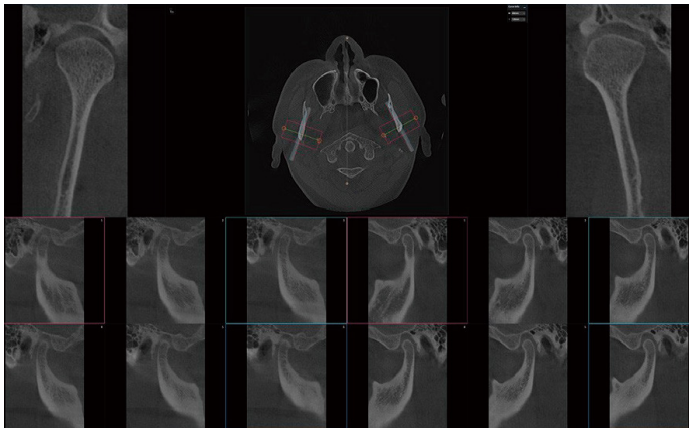
Endo Mode

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.



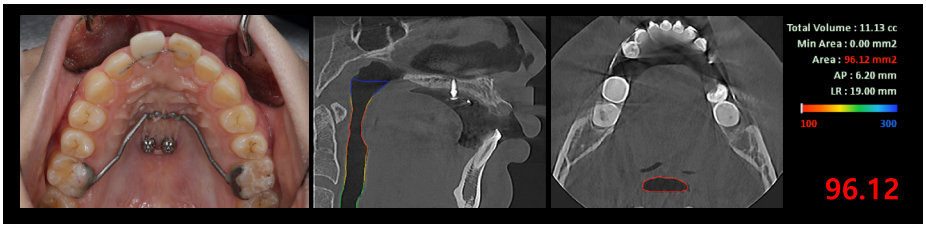
TMJ Mode

The Symmetry View function allows simultanous multi-plannar 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.

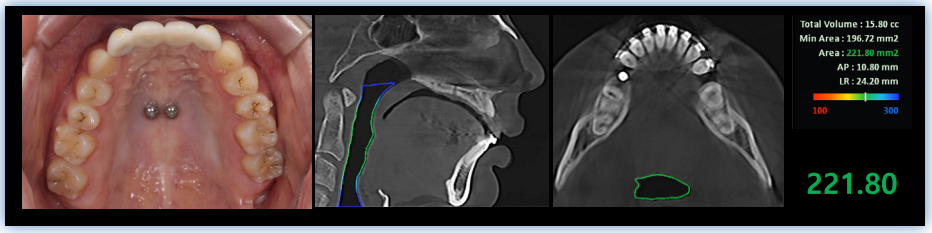


AI Airway Analysis

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.



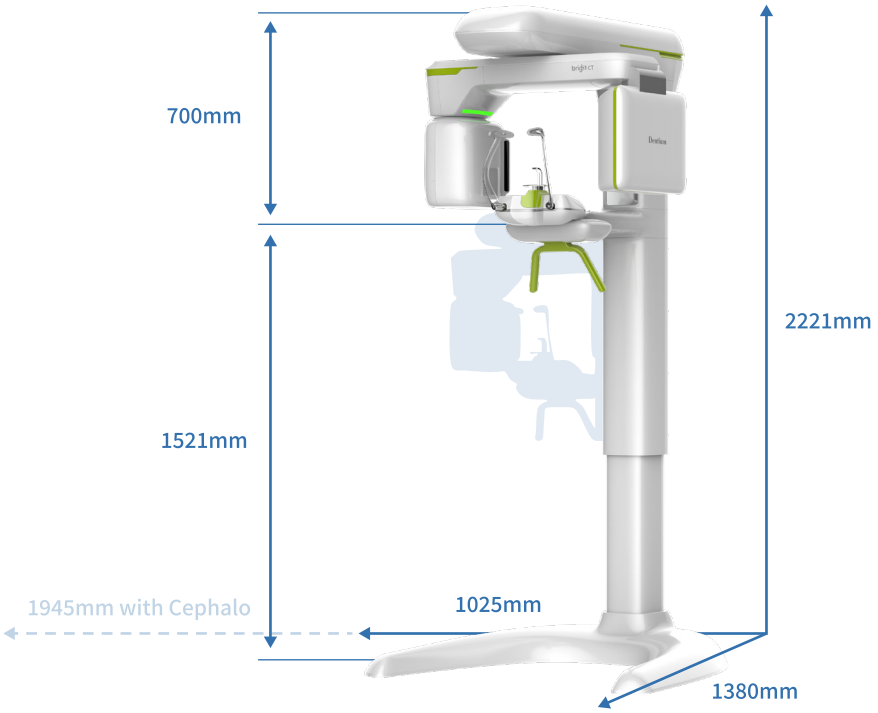
Before



After Maxillary Expansion

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.

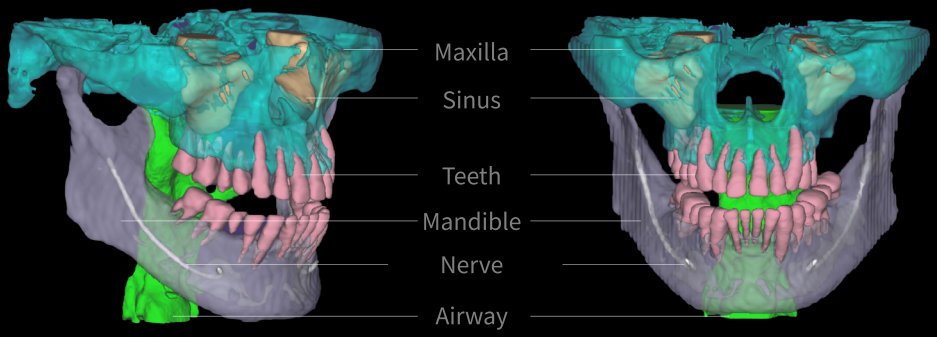
		1T	1TC	2T	2TC	2TS	2TSC
Generator Type		High frequency DC generator					
Focal Spot (mm)		0.5					
FOV (cm)		5 x 5 - 12 x 9.5				5 x 5 - 17.5 x 15 (Stitching)	
Voxel Size (mm)		0.08 - 0.3					
Scan Time (Sec)	**Pano**	11.8					
	CT	Fast / Normal / High 10 / 15 / 20					
	Ceph	-	6	-	6	-	6
	Impression	39.5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

bright CT

Practical AI Features

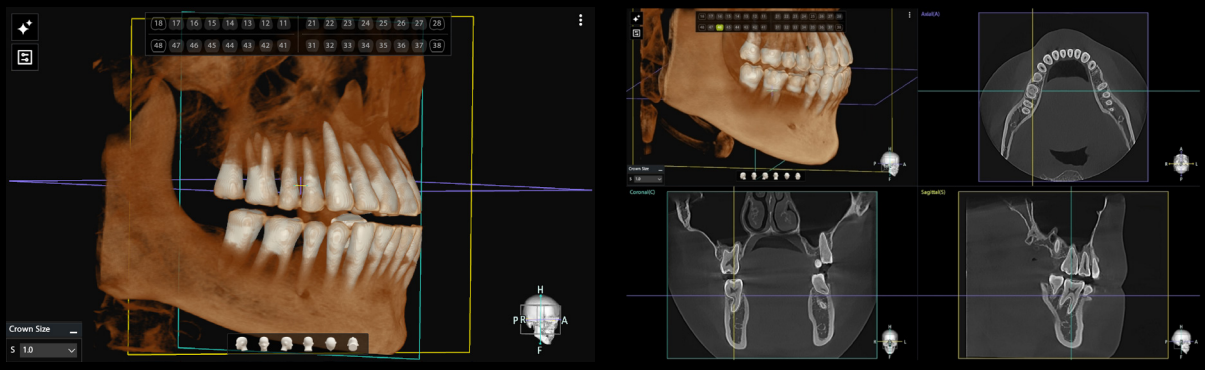
• AI Segmentation

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.



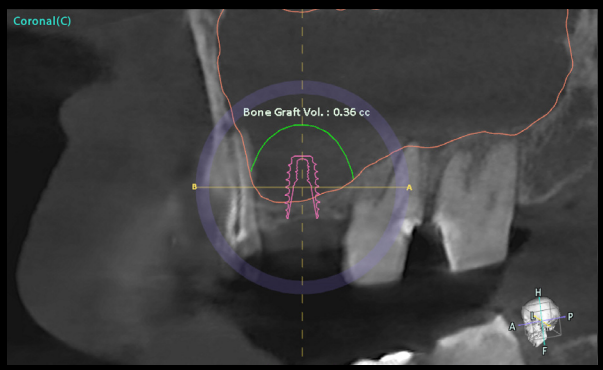
• AI Tooth Segmentation

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.

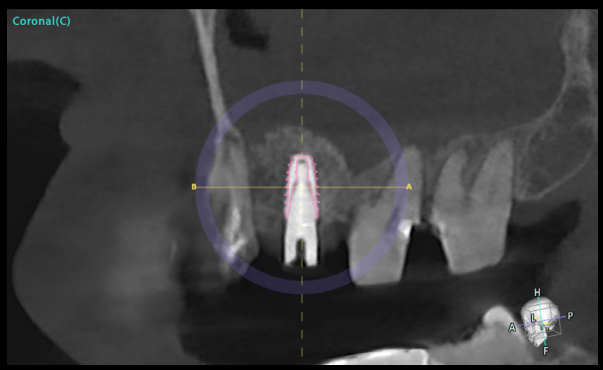


• AI Sinus Bone Graft

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



Bone Graft Simulation

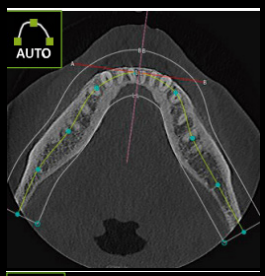


After Sinus Bone Graft

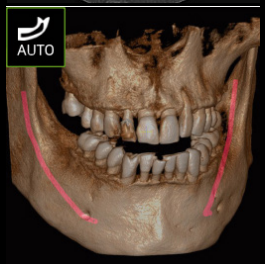
PR Video

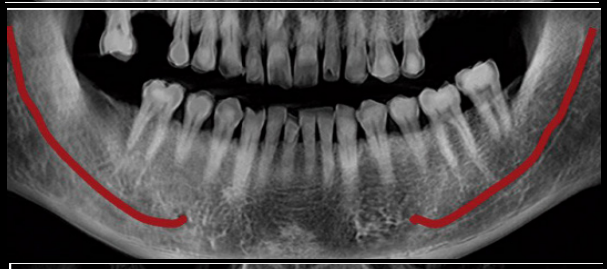
AI Implant Simulation

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.

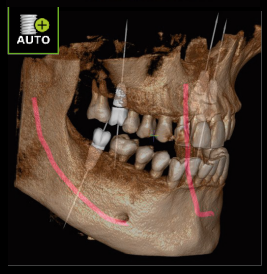


Dental Arch

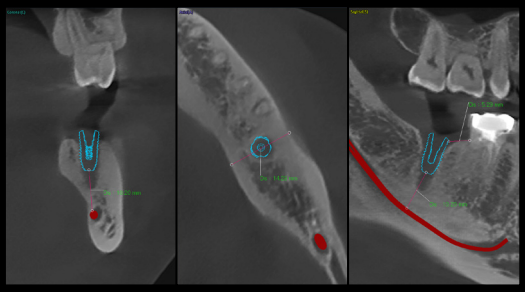




Nerve



Fixture & Crown



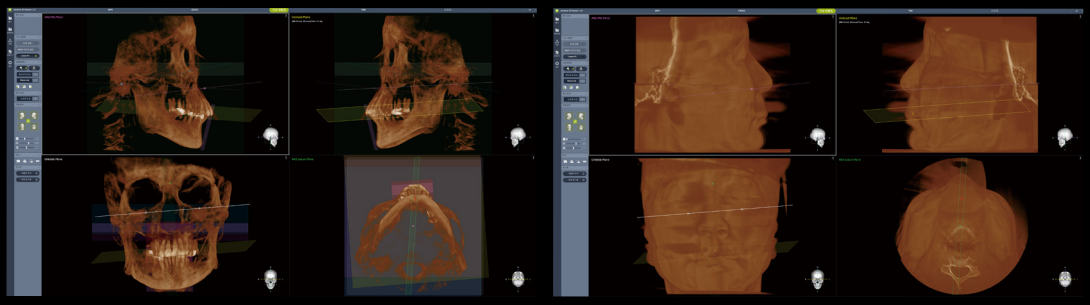
Automated Measurements
(Nerve Canals, Adjacent Teeth, Bone Thickness)

◉ AI Occlusal Plane

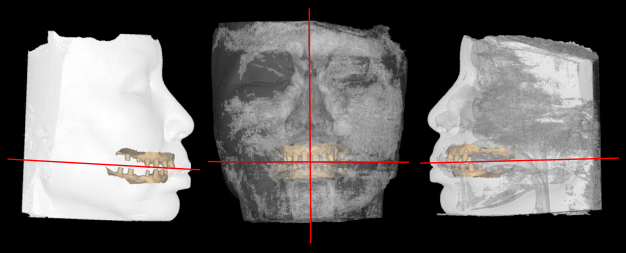
Dentium 3D Viewer automatically detects key bony landmarks such as ANS-PNS, orbitale, and mid-palatal suture.
Based on these landmarks data, it proposes an ideal occlusal plane and facial midline.
This facilitates precise planning across surgical, prosthodontic, and orthodontic treatments.

- Prosthetic Set-up Case

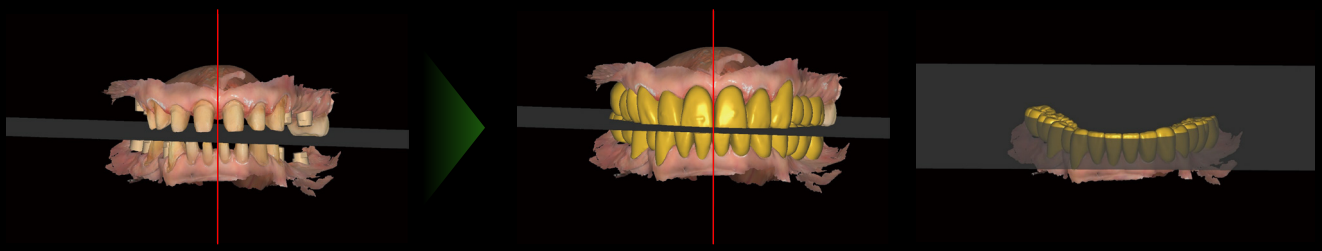
1. Data collection & AI driven analysis
   Hard and soft tissue data including key anatomical landmark information are captured from CT scan.
   Dentium 3D Viewer automatically analyzes these data to define and visualize the the ideal occlusal plane and midline.



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.



CAD

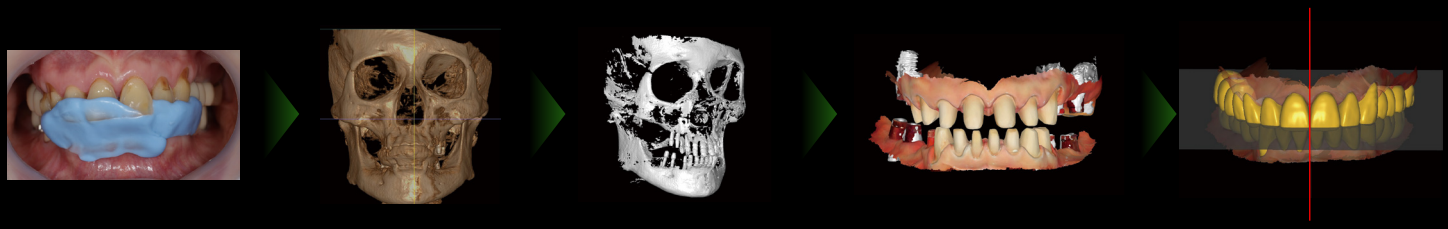
Virtual Set-up

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.



Initial Interocclusal record
Take a bite registration using putty matrix.

Post surgery CT Scan
After the implant placement, take a CT scan with the putty bite registration in place.

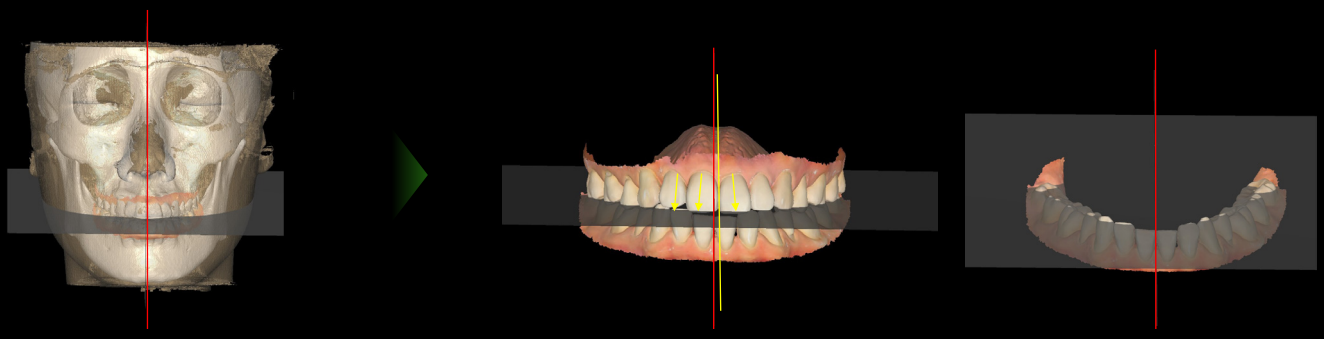
Data Acquisition
Adjust the window width and level (HU) and isolate the implant orientation data in occlusion.

Digital Mounting
Align CT STL and IOS data in CAD.

Prosthesis design with CAD
Set the midline and occlusal plane using AI Occlusal Plane feature.

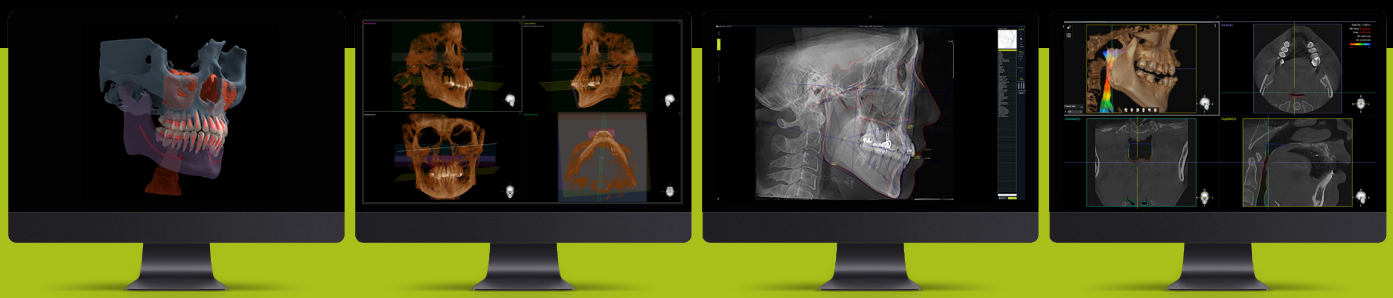
*Window Setting (HU) Adjustment: Adjust the displayed HU range to distinguish tissues of different densities

- Orthodontic Diagnosis & Planning Case



Stitching CT Data & Working Model Data

Compare the AI-generated occlusal & midline plane with the patient's actual dentition



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

Dentium

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