

FROM DIAGNOSIS TO TREATMENT

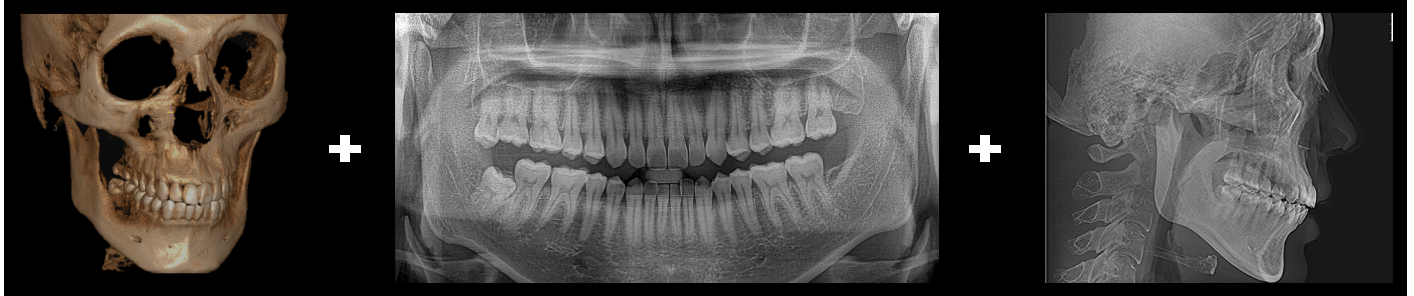


bright CT

Dentium

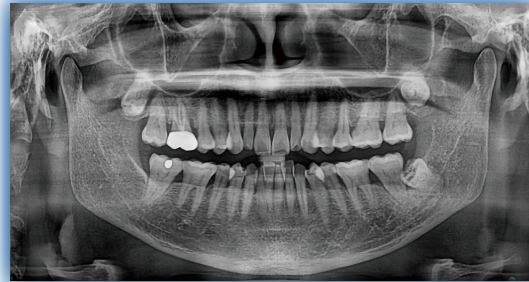
One Scan All You Need

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, 2TS Model Only)

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



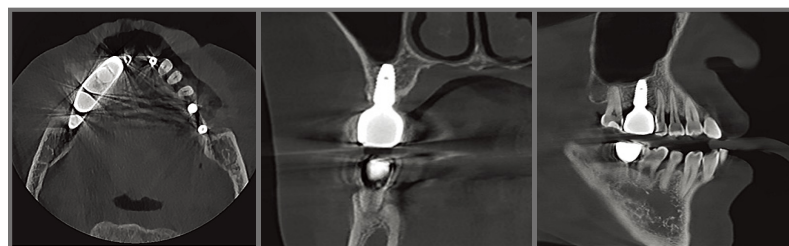
Lateral

PA

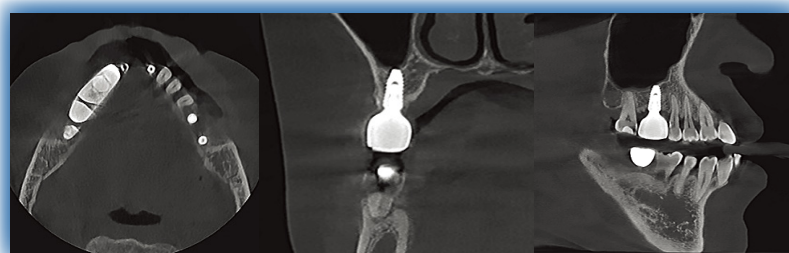
SMV

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.



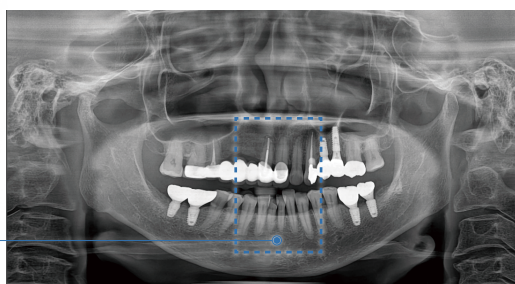
MAR OFF



MAR ON

Accurate Anterior View

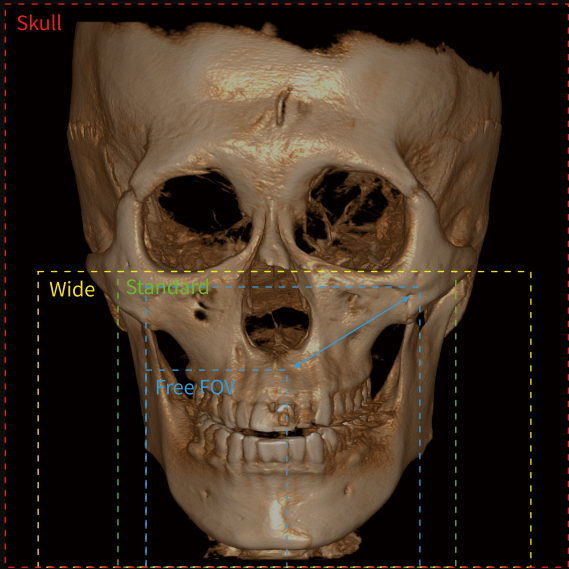
Next generation auto-focusing technology analyzes thousands of data points automatically selecting optimal images to ensure distortion free views of the aesthetic zone. This supports accurate diagnosis and planning to treat a variety of situations ranging from anterior aesthetic cases to pathology.



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.

Comprehensive Model (4T Model)



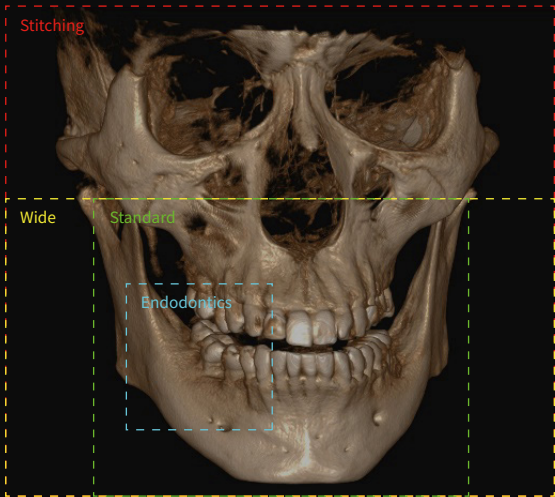
Skull 20 x 20

Wide 17.5 x 10.5

Standard 12 x 10.5

Free FOV 5 x 7 - 10 x 10.5

Clinical Model (2T Model)



Stitching 17.5 x 15

Wide 17.5 x 9.5

Standard 12 x 9.5

Endodontics 5 x 5



A woman with brown hair tied back is wearing a white ribbed cardigan. She is holding a white and yellow handheld dental X-ray unit with both hands. A clear plastic head-mounted display is attached to her forehead, and a small tube is visible near her mouth. The background is a bright, clinical setting with white surfaces.

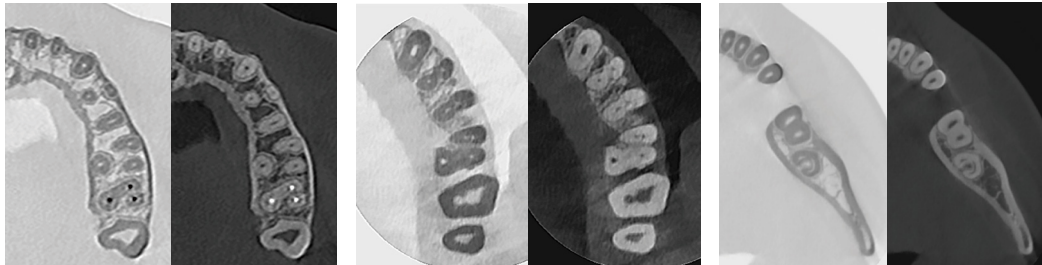
From small details to complete overview

Experience the power of versatility

Specialized Diagnostic Mode

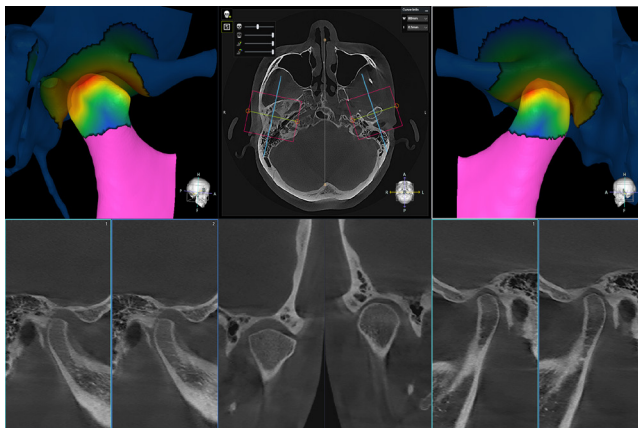
• Endo Mode

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.

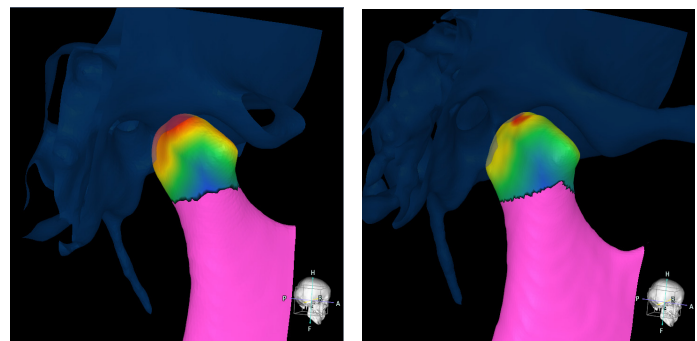


• Auto TMJ Analysis

Auto TMJ analysis enables simultaneous bilateral visualization for objective symmetry assessment. Color-mapped condyle-fossa distance allows intuitive visualization of joint space relationships, while 3D stress distribution analysis provides insight into functional loading for pre- and postoperative assessment.



TMJ View

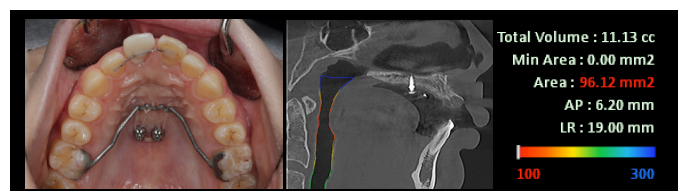
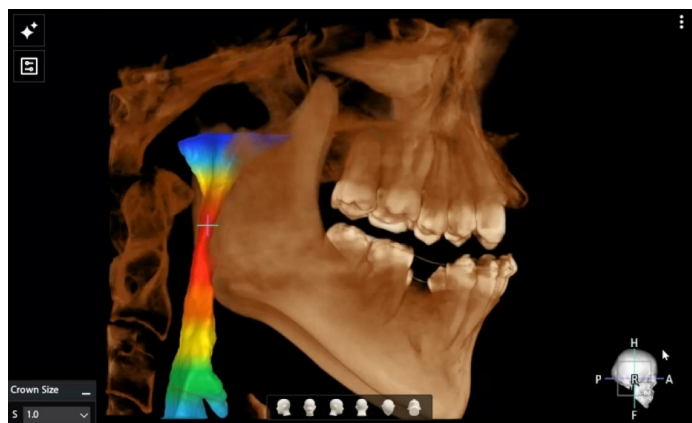


Pre-OP

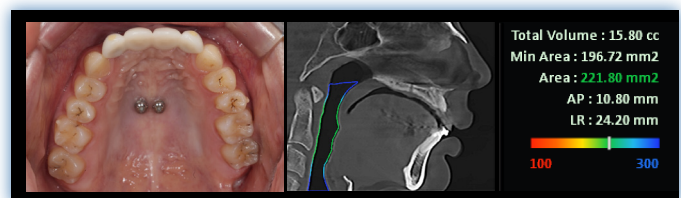
Post-OP

• Auto Airway Analysis

Auto 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

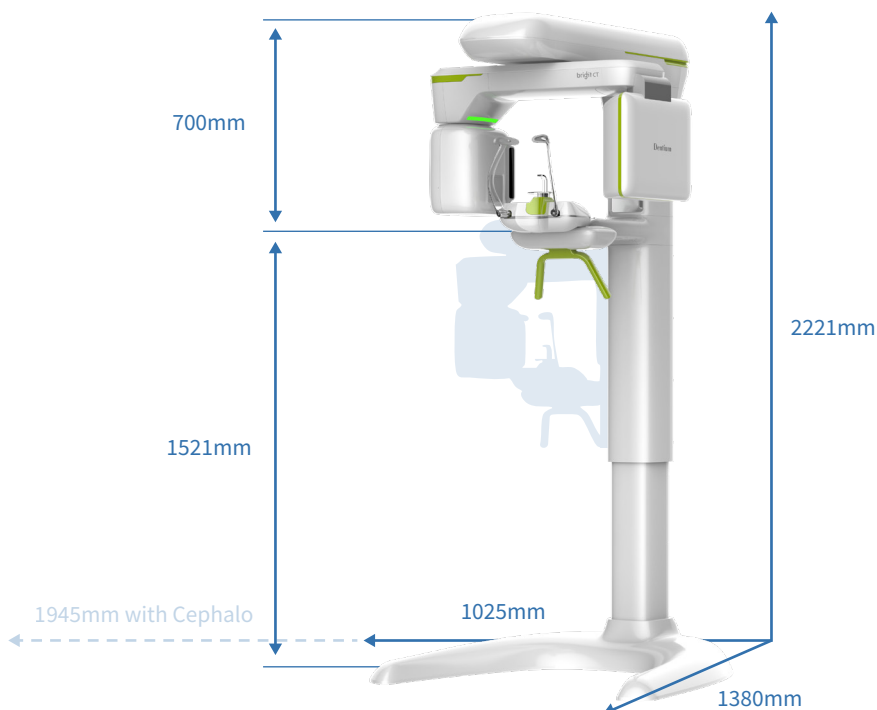


After Maxillary Expansion

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

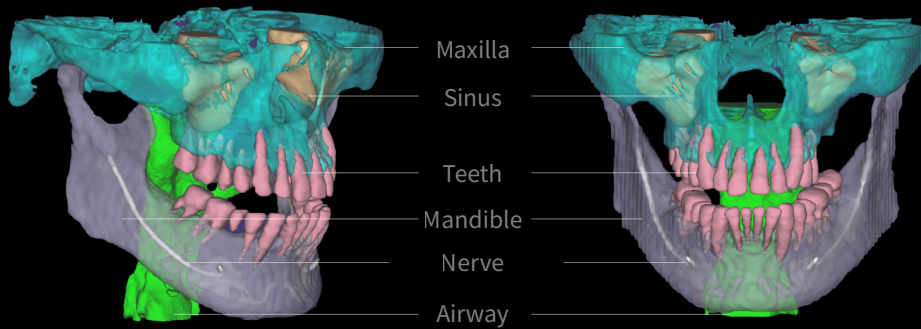
With fully adjustable FOV and high resolution imaging, bright CT provides reliable clinical solutions from diagnosis to treatment planning.

		1T	1TC	2TS	2TSC	4T	4TC
Generator Type		High frequency DC generator					
Focal Spot(mm)		0.5					
FOV(cm)		5x5 – 12x9.5		5x5 – 17.5x15(Stitching)		5x7 – 20x20	
Voxel Size(mm)		0.08 – 0.3					
Scan Time (sec)	Pano	11.8					
	CT	Fast / Normal / High 10 / 15 / 20				Low Dose / Normal / High 10 / 15 / 25	
	Ceph	-	6	-	6	-	3.5
	Impression	39.5				24.5	
Reconstruction Time(sec)		Average 40 (depending on case complexity)					

Practical Auto Features

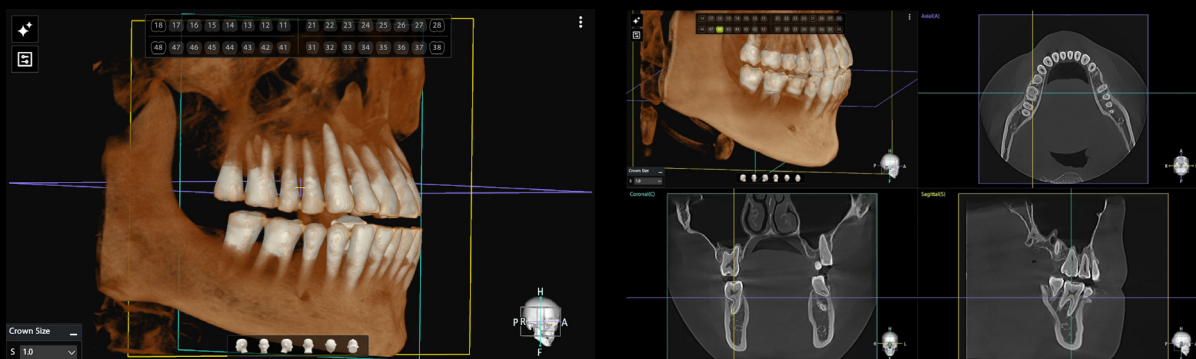
• Auto Segmentation

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.



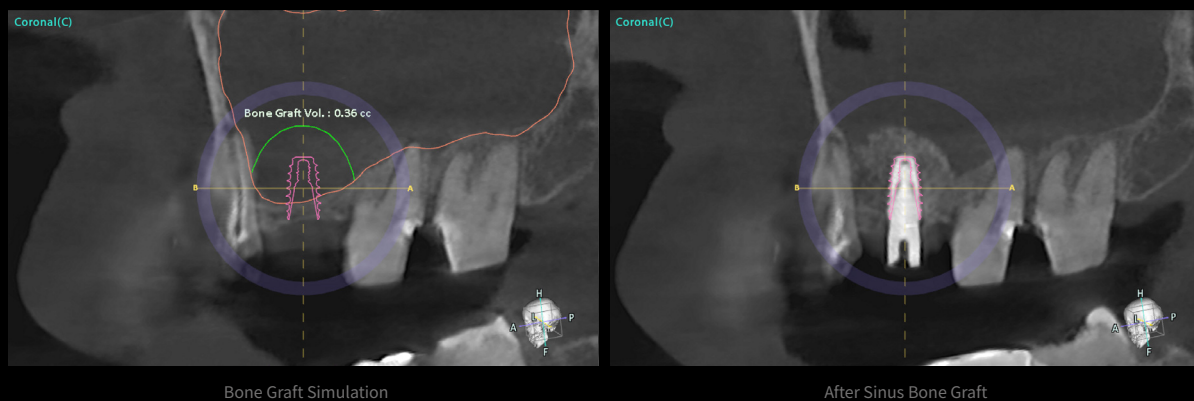
• Auto Tooth Segmentation

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.



• Auto Sinus Bone Graft

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





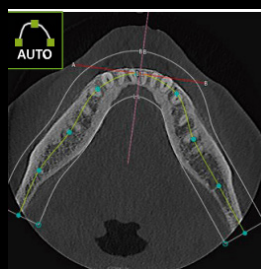
PR Video

• Auto Implant Simulation

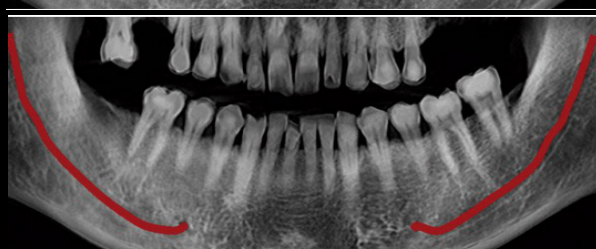
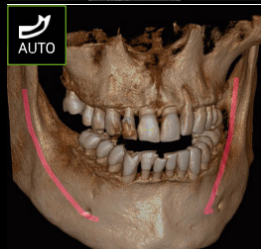
Implant planning is more streamlined with the Auto features.

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.

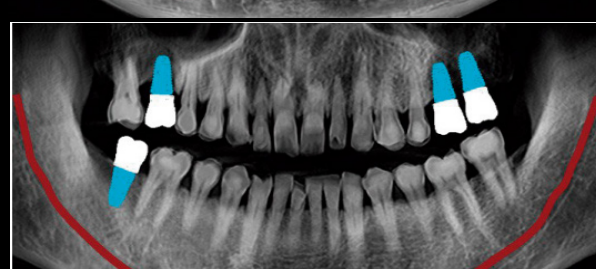
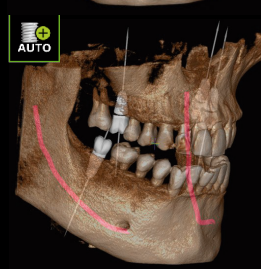
After comprehensive analysis of these data, it proposes optimal implant and prosthesis positions.



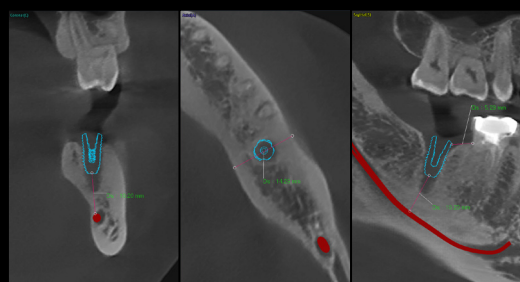
Dental Arch



Nerve



Fixture & Crown



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



• Auto Occlusal Plane

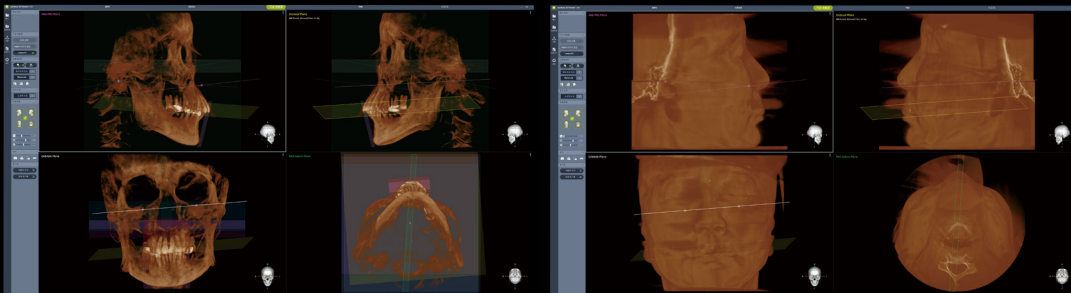
Dentium 3D Viewer automatically detects key bony landmarks such as ANS-PNS, orbitale, and mid-palatal suture. Based on these landmarks data, it proposes an ideal occlusal plane and facial midline. This facilitates precise planning across surgical, prosthodontic, and orthodontic treatments.

- Prosthetic Set-up Case

1. Data collection & Auto analysis

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

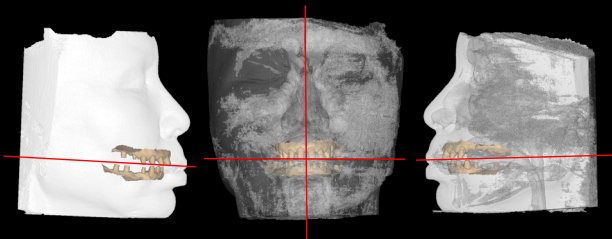
Dentium 3D Viewer automatically analyzes these data to define and visualize the ideal occlusal plane and midline.



2. Creating a digital model

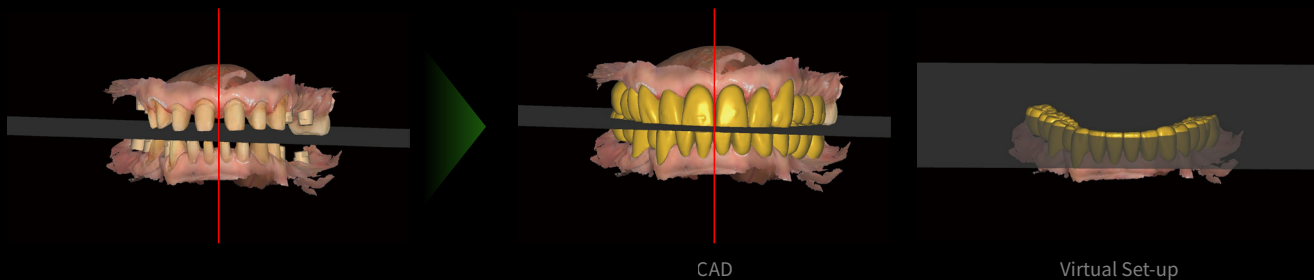
The proposed occlusal plane and midline information and scanned data can be exported as STL files.

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

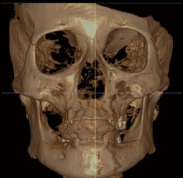
Experience a fully connected digital workflow — from Auto analysis to confident treatment execution. With Dentium 3D Viewer, every step is simple, predictable and precise.

- 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.



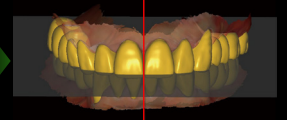
Post surgery CT Scan
After the implant placement, take a CT scan with the putty bite registration in place.



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



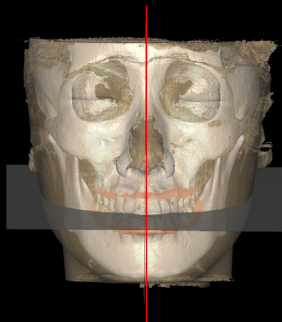
Digital Mounting
Align CT STL and IOS data in CAD.



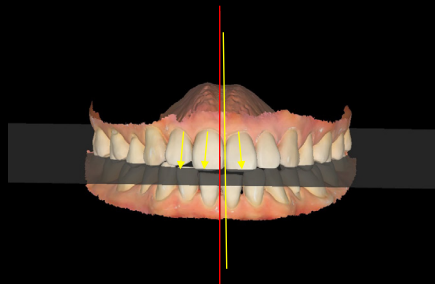
Prosthesis design with CAD
Set the midline and occlusal plane using Auto Occlusal Plane feature.

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

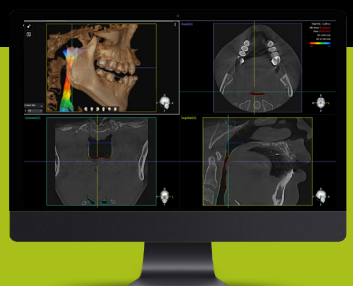
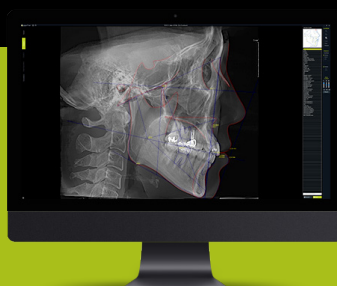
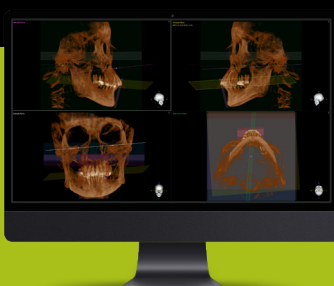
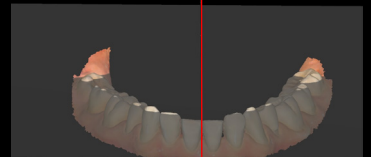
- Orthodontic Diagnosis & Planning Case



Stitching CT Data & Working Model Data



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



Powered by **A¹**



This publication is for international distribution.
It may differ from the certification and sales products in some countries.

Dentium

Dentium Co., Ltd www.dentium.com

Headquarters 76, Changnyong-daero 256beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16229, Republic of Korea

Europe Duna Tower B, Floor 4, Népfürdő u. 22, 1138 Budapest, Hungary