bright CT

Product Catalog

Lower Dose,
More Reliable

Clearer,
More Precise

Dentium
For Dentists By Dentists

Product Introduction

Low Dose

DRL (Korea)	2,060 $mGy \cdot cm^2$

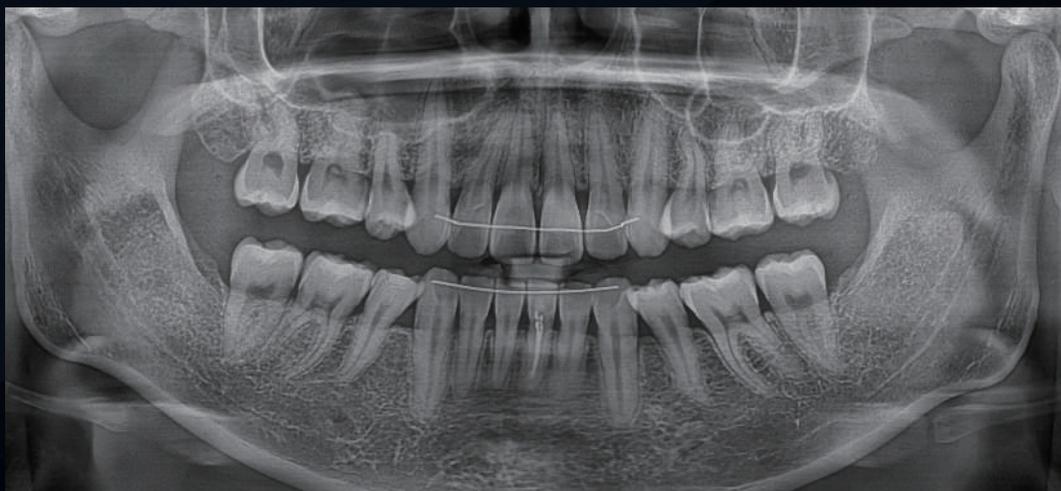**bright CT**   40% dose of Korea local diagnostic standards

Based on CBCT(Year of 2019/Unit: mGy cm^2)
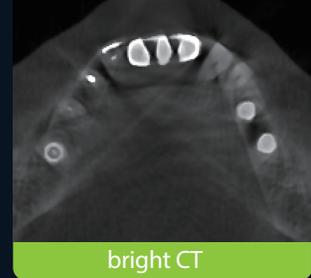DRL: Diagnostic Reference Level

Panoramic Auto Focusing

Auto Focusing Algorithm provides optimal image

bright MAR Algorithm

Minimize metal artifacts through the latest MAR (Metal Artifact Reduction)

Previous rainbow CT
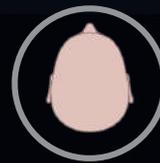
bright CT

Fast Scan Time   * 2tile only

Acquired 3D CT images with only 240° scan

Reduced acquisition time and exposure dose by 2/3 compared to the previous model.

360°, 20sec

240°, 13.4sec

Large & Free FOV

Largest FOV 17.5 X 15 (Stitchng) in this class

Various image size options can be selected upon a purpose of treatment.
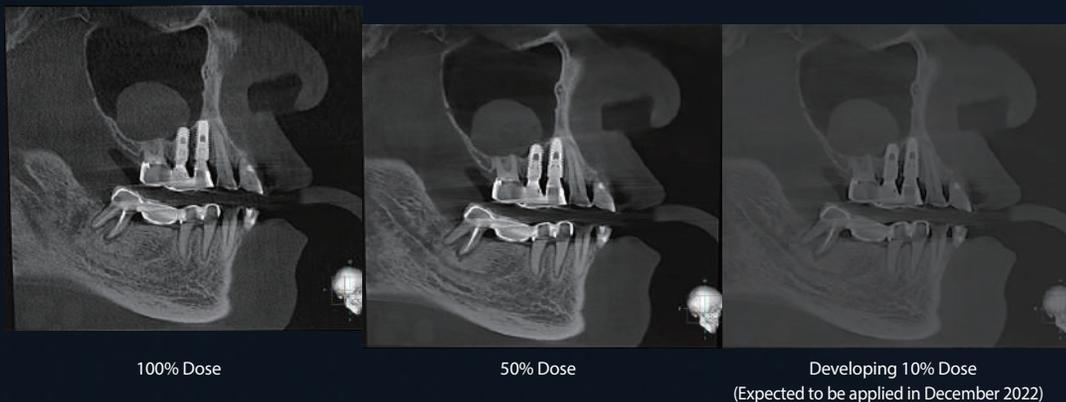
12X9.5 (1Tile)

17.5X9.5 (2Tile)

17.5X15 (2Tile Stitching)

Lower Dose, More Reliable

Our high-sensitive in-house detector allows to acquire CT scans with only 40% of Korea local diagnostic standards.
Also, the acquisition time has been reduced by up to 40% compared to our previous model (rainbow CT).
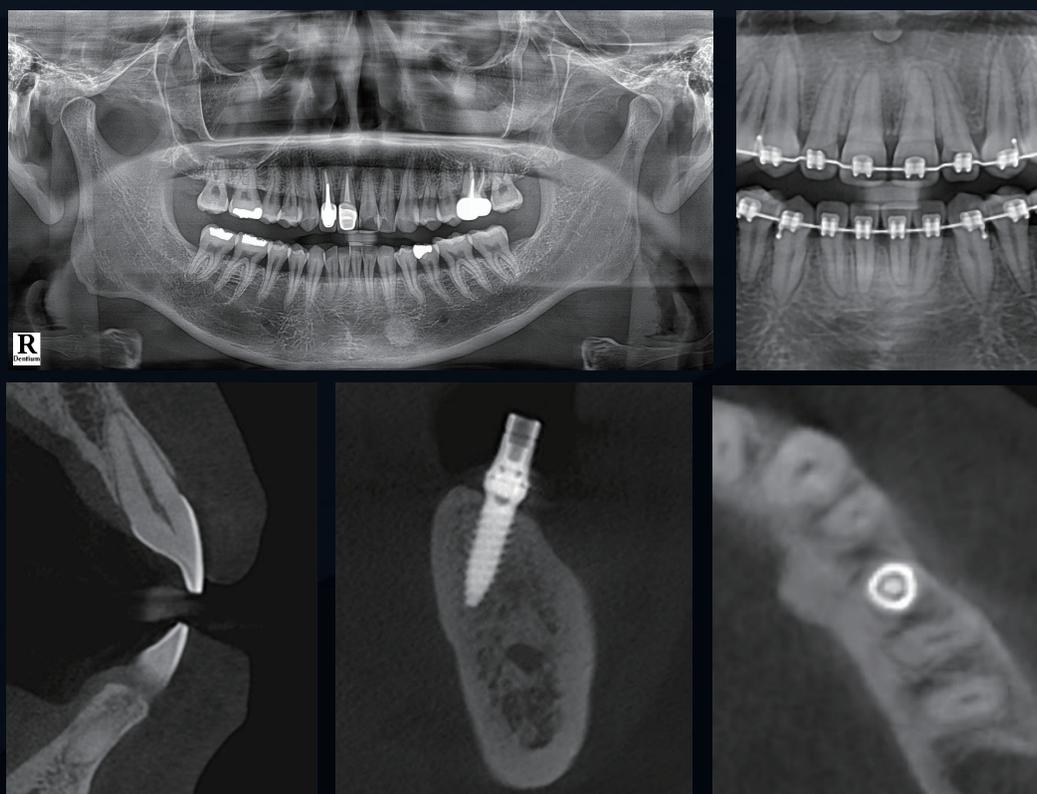
DRL (Korea) 2,060mGy·cm'		100

bright CT	40	40% dose of Korea local diagnostic standards

DRL: Diagnostic Reference Level

100% Dose   50% Dose   Developing 10% Dose
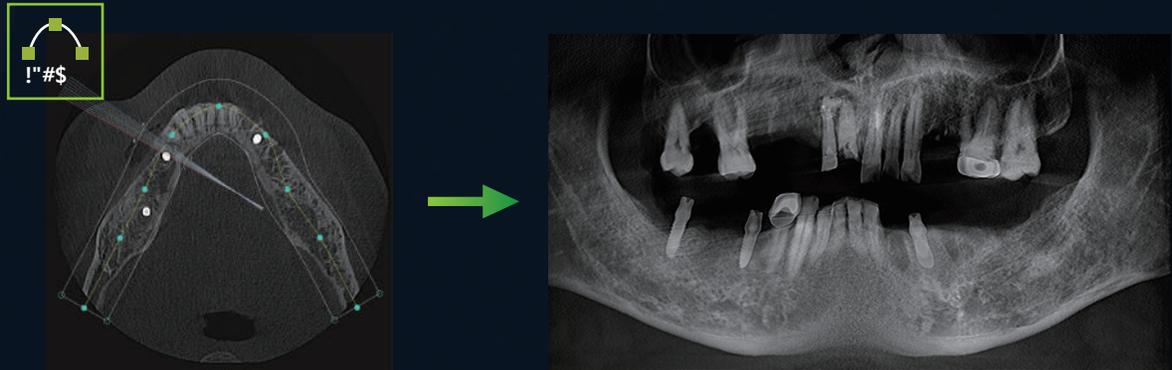(Expected to be applied in December 2022)

Clearer, More Precise

Minimized anterior distortion allows more accurate diagnosis without acquiring additional apical images.
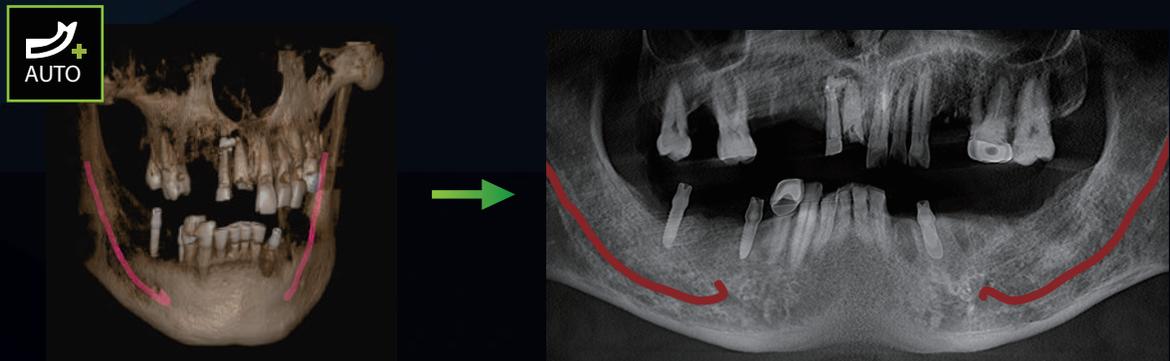Clearly identifiable inside of implant and the threads makes easier to verify the fastening rates and fractures.

AI-supported Convenience
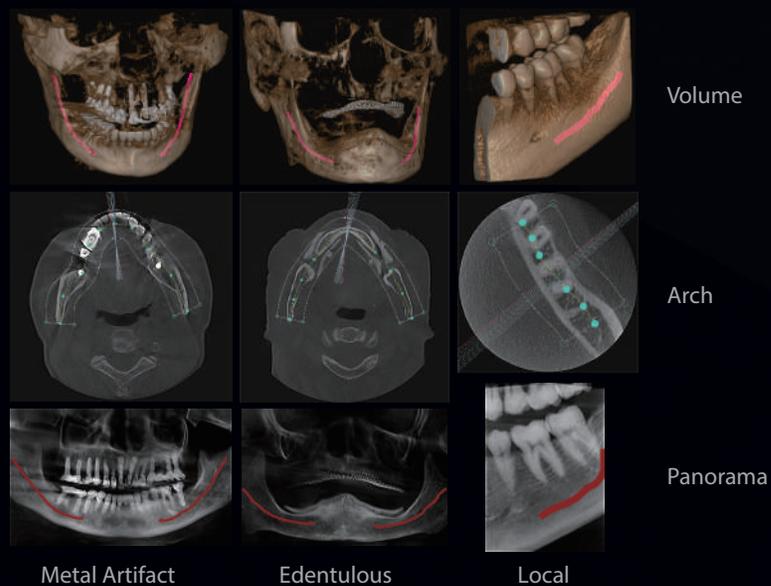
Automatic Arch Generation

Dentium AI algorithm automatically generates arch line.
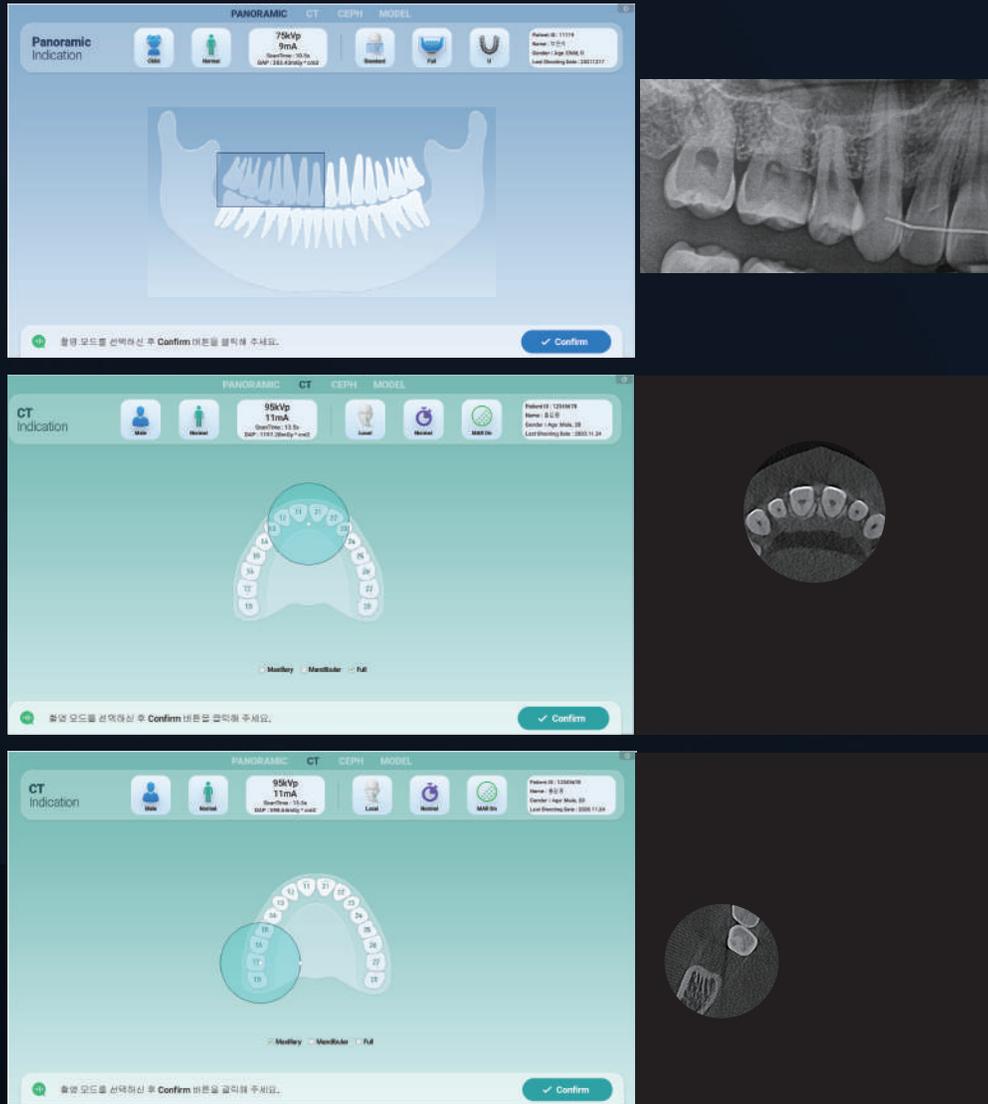

Automatic Mandibular Nerve Canal Generation

Results of Dentium AI Arch and Mandibular Nerve Canal

Volume

Arch

Panorama

Metal Artifact   Edentulous   Local

Free FOV

Free-selectable FOV allow a user to acquire an only desired image area and reduce the exposure dose.
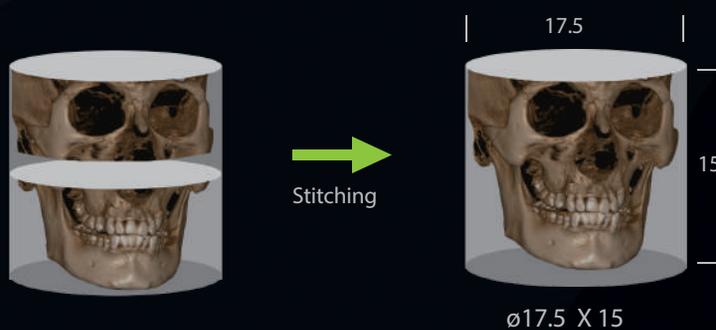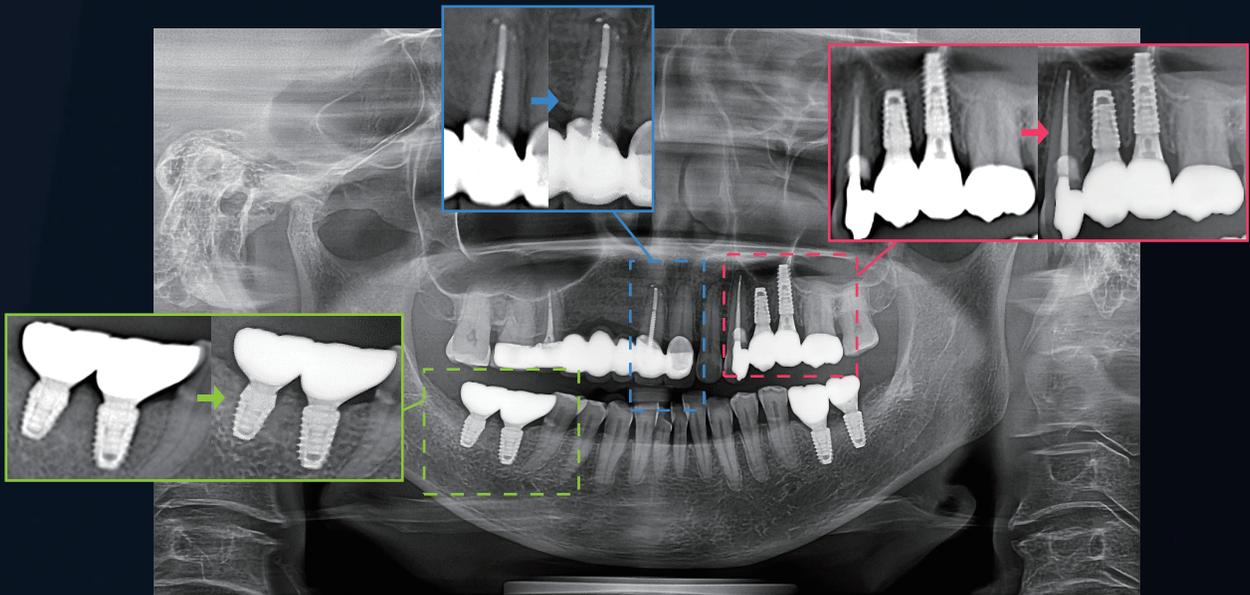

Result Image

LargeFOV

Built-in stitching functionality that attaches 2 separately acquired images.

From implant planning to orthodontic diagnosis with a large imaging size of up to 17.5 X 15 FOV.
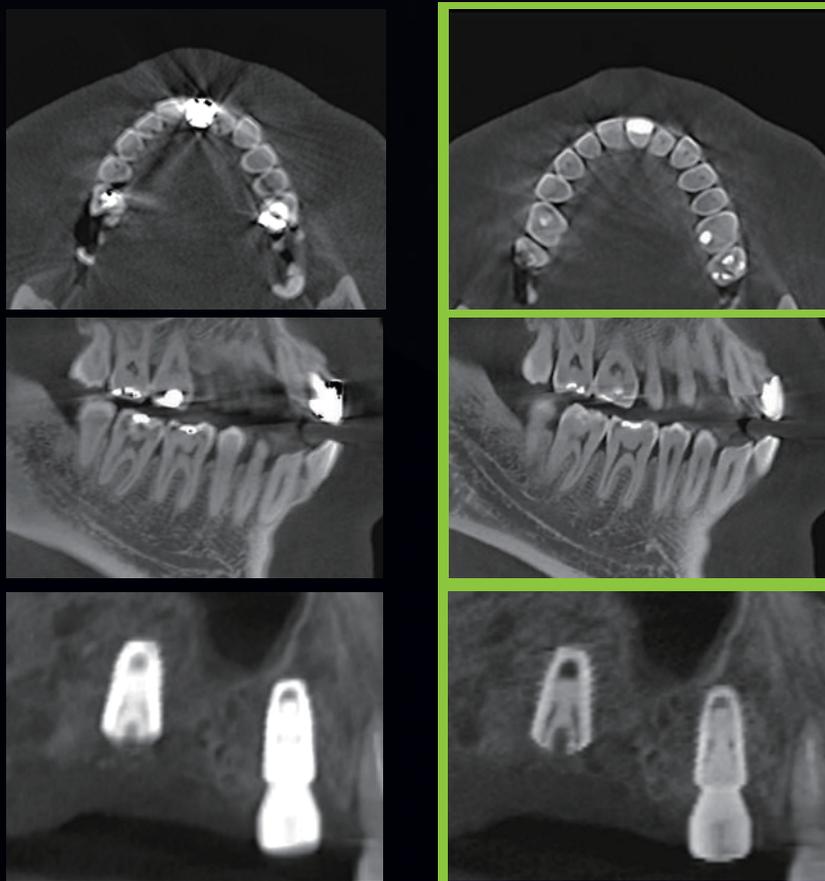

Stitching

17.5

15

ø17.5 X 15

Panoramic Auto Focusing

With 30 multi-layer images in one acquisition, the Auto Focusing Algorithm provides optimal images.

bright MAR Algorithm

Our latest MAR (Metal Artifact Reduction) technology minimizes metal artifacts and enabling accurate diagnosis through high-quality CT images.
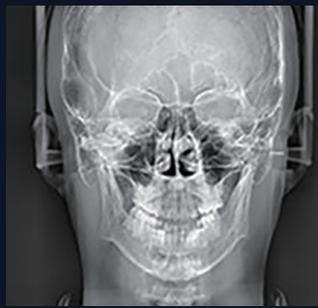
MAR off
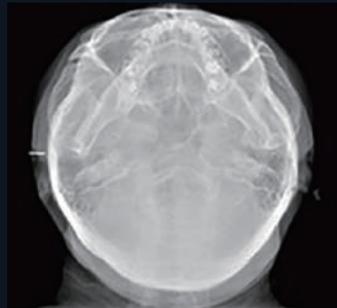
MAR on

Cephalometric

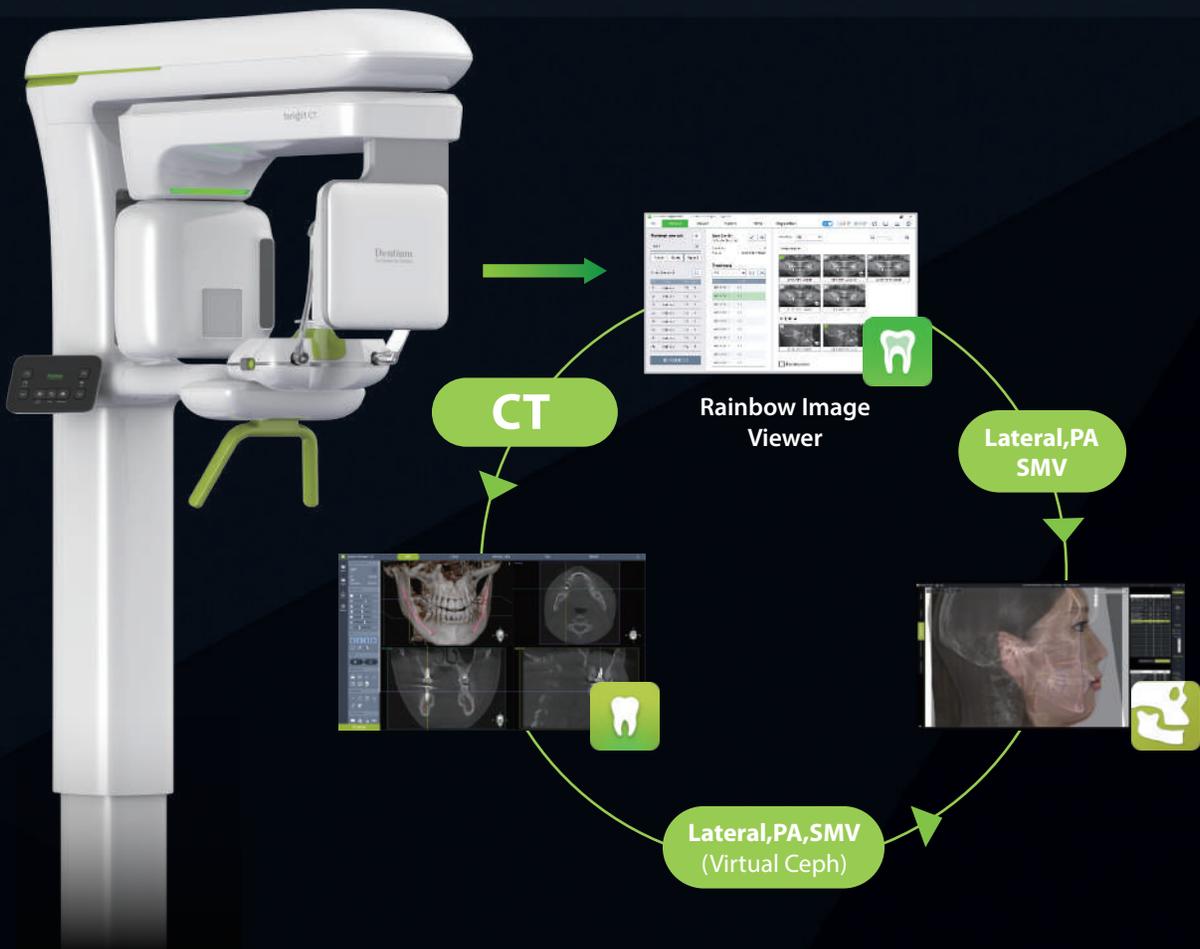Cephalometric Scan Module enables fast acquisition. (Scan Time 6 sec.)

Lateral

PA

SMV

Carpus

Water's view

bright CT Software Diagram

CT

Rainbow Image Viewer

Lateral,PA SMV

Lateral,PA,SMV (Virtual Ceph)

rainbow™ 3D Viewer

Intuitive User Interface helps easy analyzing and implant planning.
It also enables to handle more accurate position, path and depth settings.

· MPR(Multi-Planar Reconstruction)

3D image viewer provides axial, coronal and sagittal views.
Various tools help users to manipulate each preference axes for specific areas.
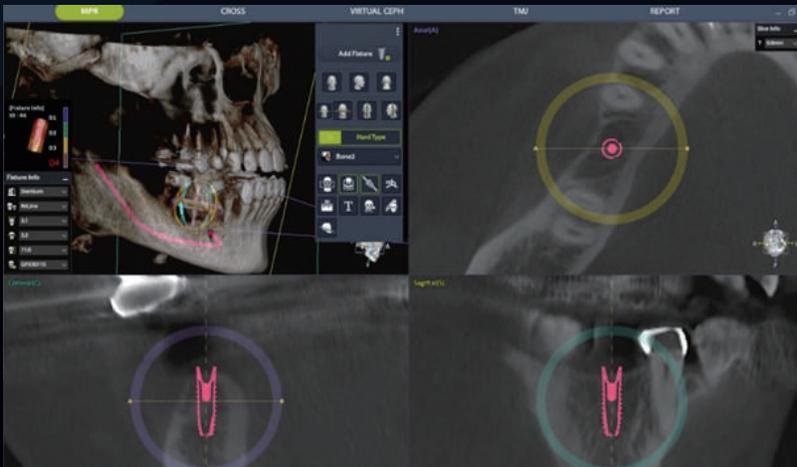

Dispay custom plane

Control custom axes

· Implant Simulation

Provides all fixture libraries of Dentium.

Fixture is placed where a position of the MPR section line locates.
Upon selection on the fixture, it automatically switches to implant mode.

Endo Mode

Endo mode provides with a maximum resolution of 80μm.

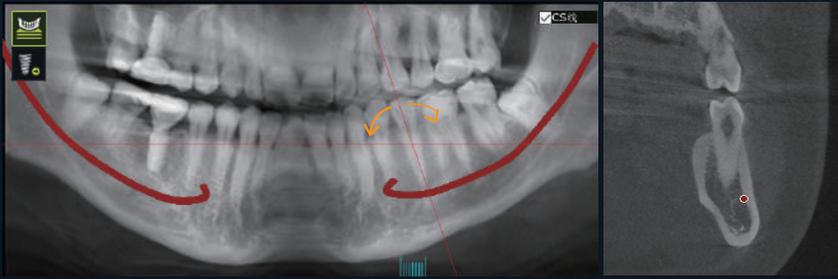Invert (Positive / Negative) diagnostic mode helps identify more accurate images.
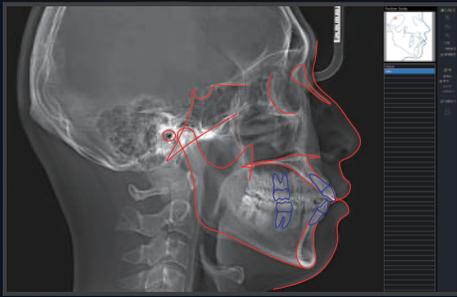

Positive

Negative

Cross Axis

Cross-axis mode can be selected in panoramic images and it improves user's convenience by enabling diagnosis of the entire tooth in one cross section.
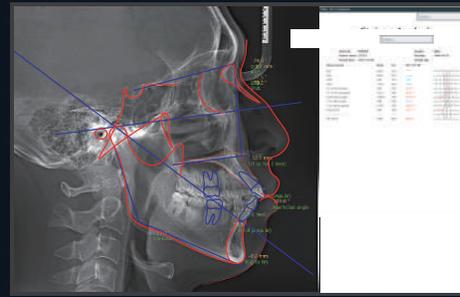

rainbow™ Ceph

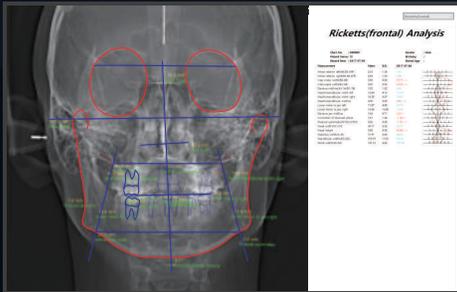Cephalometric tracing software comes with a 3in1 option.

We also provides a professional orthodontic treatment solution. Upon landmark settings, it allows easy analysis and customization as desired by the user.

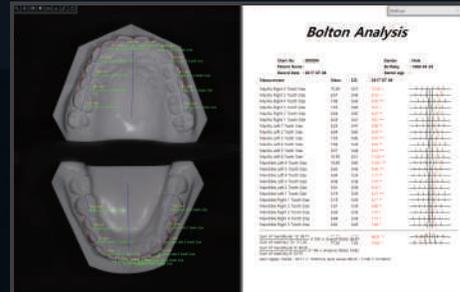Simple tracing function

Lateral analysis
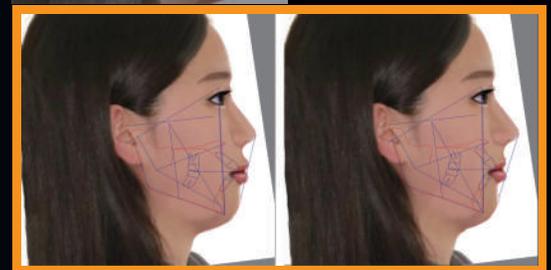

PA analysis

Model analysis

TMJ

Symmetry view provides a cross-sectional image of the temporomandibular joint area for bilateral TMJ diagnosis.

VTO/STO

VTO/STO provides for a simulation pre/post orthodontic surgery and orthodontic treatment.
It also increases a surgery consent rate with the visual simulation.
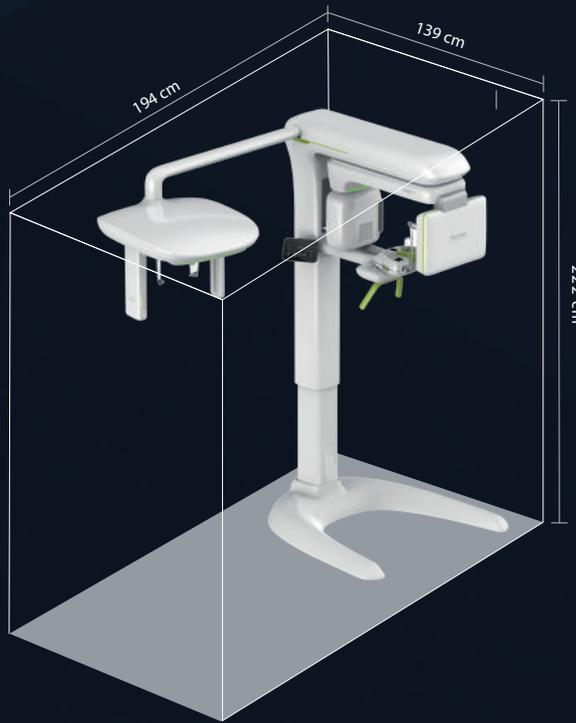

efore   After

Dimensions

Slim design allows to fit in most narrow spaces.

139 cm

194 cm

222 cm

3in1 (PANO + CBCT + CEPH)

Line up

6 line-up for user preferences.

bright CT_1TC (PANO + CBCT + CEPH)

bright CT_2TC (PANO + CBCT + CEPH)
bright CT_2TSC (PANO + CBCT+ Stitching + CEPH)

Technical Specification

		bright CT-1T	bright CT-1TC	bright CT-2T	bright CT-2TC	bright CT-2TS	bright CT-2TSC
		2in1	3in1	2in1	3in1	2in1	3in1
Focal Spot		0.5 mm					
CT FOV(cm)		Free FOV(5 x 5 to 10 x 9.5) 12 x 9.5		Free FOV(5 x 5 to 10 x 9.5) 12 x 9.5 17.5 x 9.5(Wide)		Free FOV(5 x 5 to 10 x 9.5) 12 x 9.5 17.5 x 9.5(Wide) 17.5 x 15(Stitching)	
Voxel Size		80 μm to 400 μm					
Scan Time	Pano	11.8 sec.					
	CT	10 sec. / 15 sec. / 20 sec.		Free FOV, 12 x 9.5: 6.6 sec. / 13.4 sec. / 20 sec. 17.5 x 9.5: 10 sec. / 15 sec. / 20 sec.		Free FOV, 12 x 9.5: 6.6 sec. / 13.4 sec. / 20 sec. 17.5 x 9.5: 10 sec. / 15 sec. / 20 sec. 17.5 x 9.5(Stitching): 20 sec. / 30 sec. / 40 sec.	
	Line Ceph	X	6 sec	X	6 sec	X	6 sec
	Model	38.4 sec.					

CBCT   Panorama   Cephalo   Impression   3D Viewer   rainbow™ Ceph

Dentium
For Dentists By Dentists

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