

# PAPAYA 3D Premium Plus

New 4 in 1 (CBCT, Panoramic, Cephalometric, Model Scanning) system  
The newest generation in a long line of Genoray products





- Providing the finest images using patient position memory
- Large Field of View 23x24cm
- One-shot Cephalo
- Mode-specific sensor configurations

**New 4 in 1 (CBCT, Panoramic, Cephalometric, Model Scanning) System**

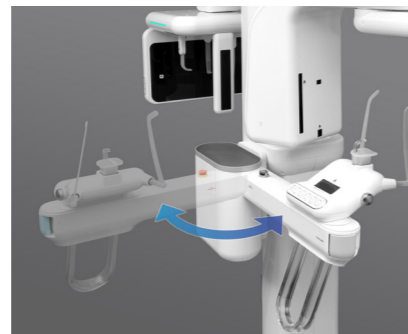
is the newest generation in a long line of Genoray products and has been designed to provide diagnostic images that are accurate and detailed for medical treatment, implant treatment and orthodontic diagnosis.



LED lights indicate the Equipment and Exposure Status.  
Voice guidance for step by step instructions.



The Seat Type for optimal image acquisition minimizes the shaking of the images and makes it comfortable for everyone, including children and the elderly.



The Open-and-closed chinrest system offers a small foot print suitable for areas with limited space.



The One-Shot-Cephalo\* portrays distortion-free images with minimal motion artifacts.



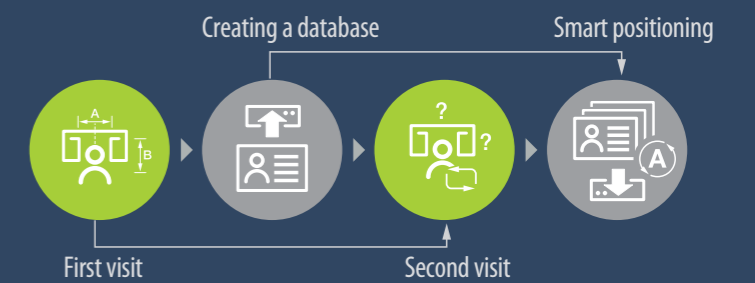
Safely store accessories while scanning using the storage box located on the chinrest



Easy access for disabled patients.

**Smart Positioning System**

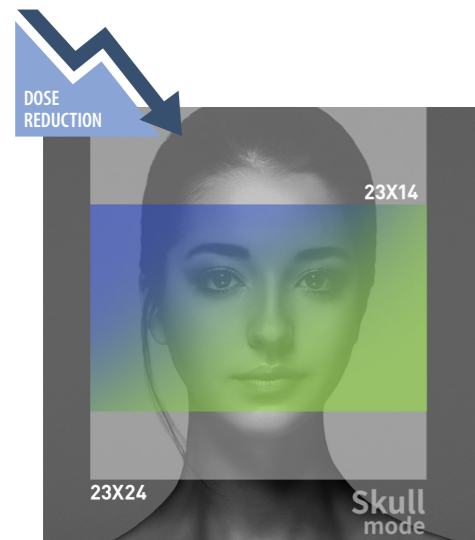
By creating a database based on the patient-specific exposure conditions and positioning of the previous images, you can create fast and convenient scans without any additional adjustments.





## Expanded 3D CT

Expanded FOV 23x24 or 23x14  
Superior Image Processing



### Expanded the Field of View

PAPAYA 3D PREMIUM PLUS expands the Field of View(FOV). This feature allows for an expanded view of the facial structures, sinus, TMJ, and possible to check both zygomatic bones, for facial asymmetry.

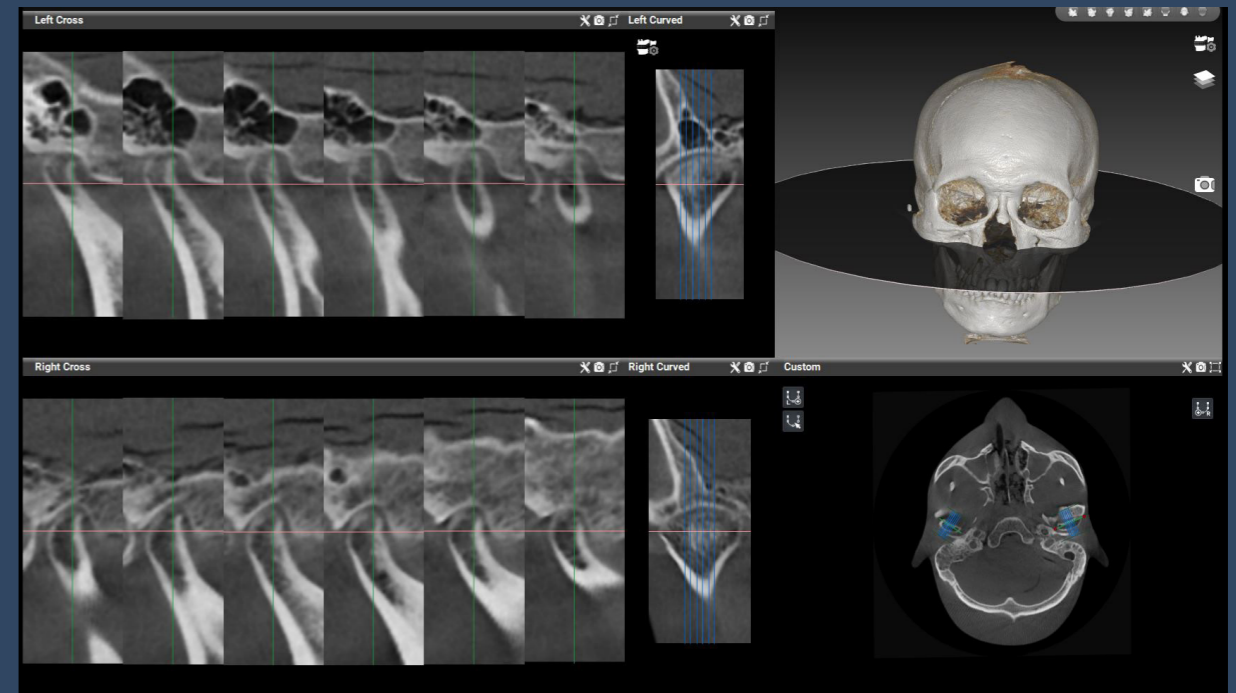
Specifically suitable for in-clinic use the new PAPAYA 3D PREMIUM cone-beam CT system from Genoray has a large field of view (FOV) and is designed for head and neck imaging.

Intended for wide application areas ranging from single dental implant planning with small FOV up to whole skull imaging with extra-large FOV.

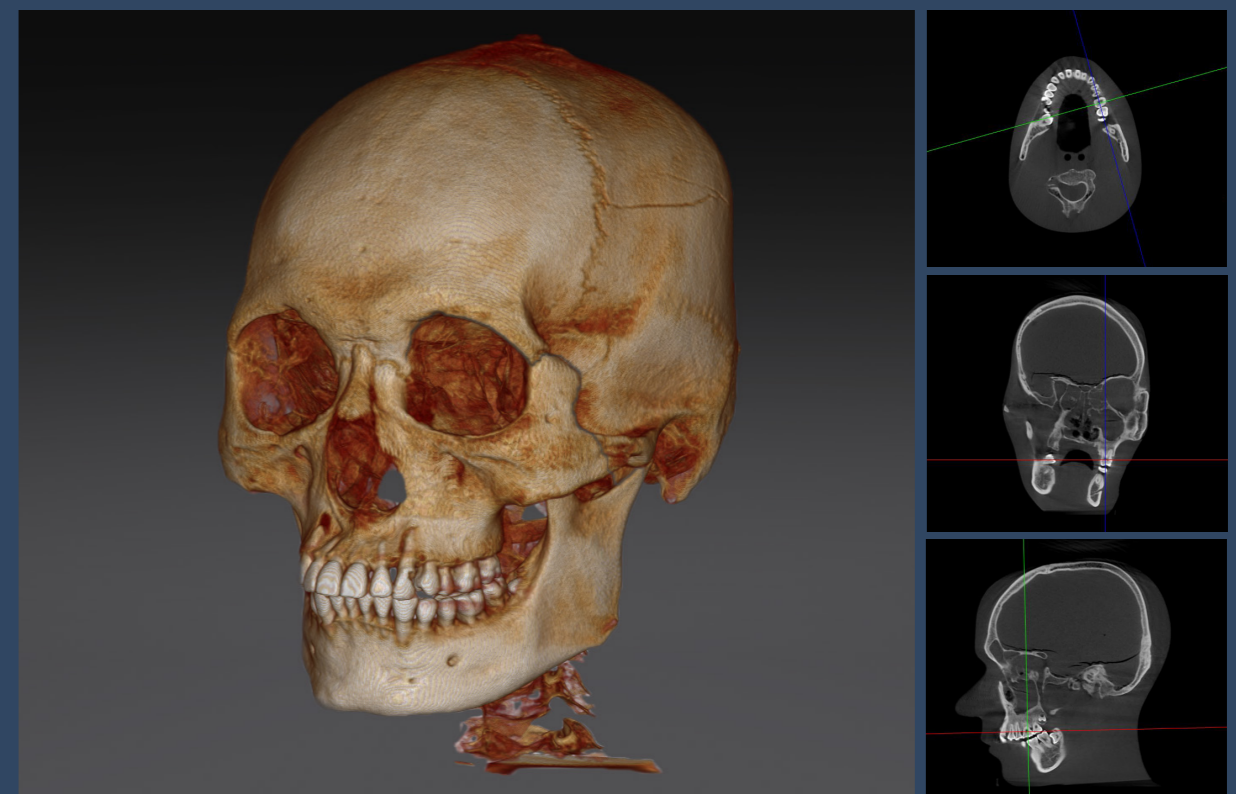
- Three(3) Dedicated detectors
- Long life , No delay, Reliable

### Low Dose trough Fast Scan

PAPAYA 3D PREMIUM PLUS provides a low dose scan of the desired area through 7.7 seconds fast scan time.



Large FOV CT - TMJ Viewer



Large FOV CT - 23 x 24 Full Skull Mode



## 3D CT

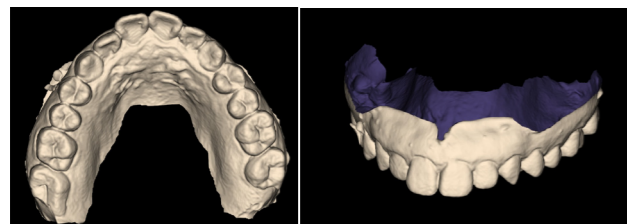
### High Resolution Computed Tomography Technology

View areas that are not easily visible, utilizing 3D CBCT technology, to help patients understand diagnosis and procedures.

### Model Scan Mode

Provides the ability to convert acquired CT images into STL format data so that it will become compatible with external systems that produce therapeutic instruments / implants.

With exported STL data, 3rd party Softwares can be used to design temporary prosthesis and implant / orthodontic treatment devices.

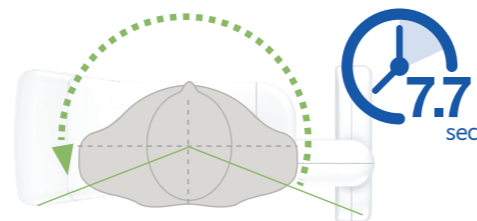


### Auto-Stitching Technology

Auto-Stitching, a function (algorithm) that automatically calibrates and compensates for the patient's movement at the time of shooting, combines two images to reconstruct an optimal image.

### Fast Scan Time

- Minimal radiation exposure with a 7.7 seconds fast shooting time.
- Minimize motion artifacts during exposure to produce clear, accurate images



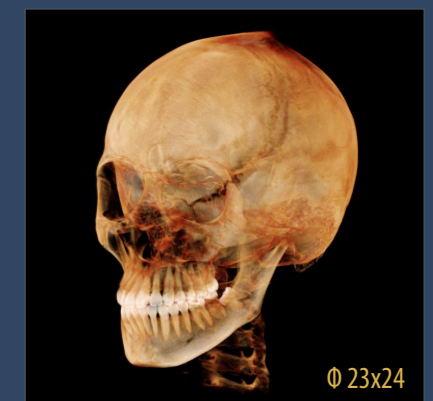
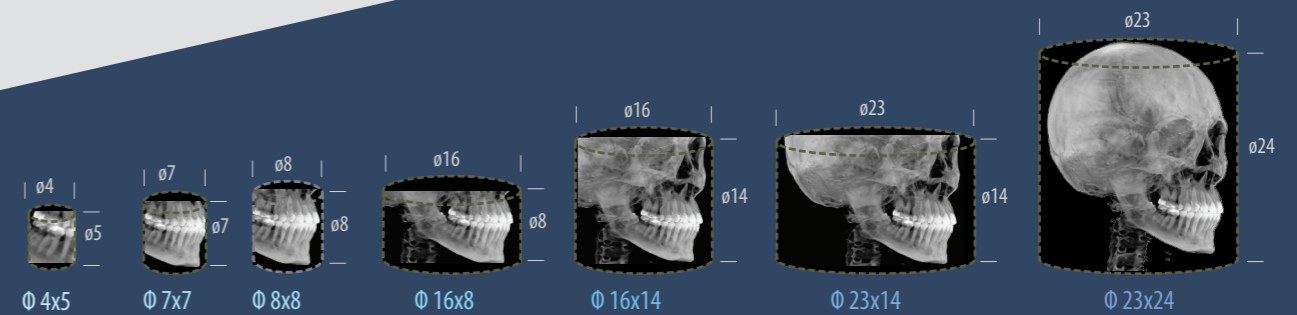
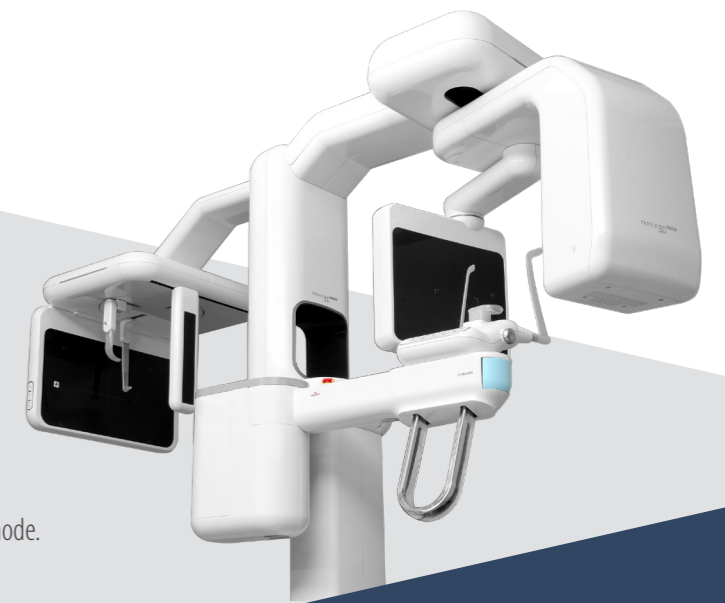
### Large FOV CT

Wide FOVs are produced from the upgraded Large size CT Detector

### Free-FOV Selection

The PAPAAYA 3D Premium Plus offers various FOVs and resolutions for each diagnostic need.

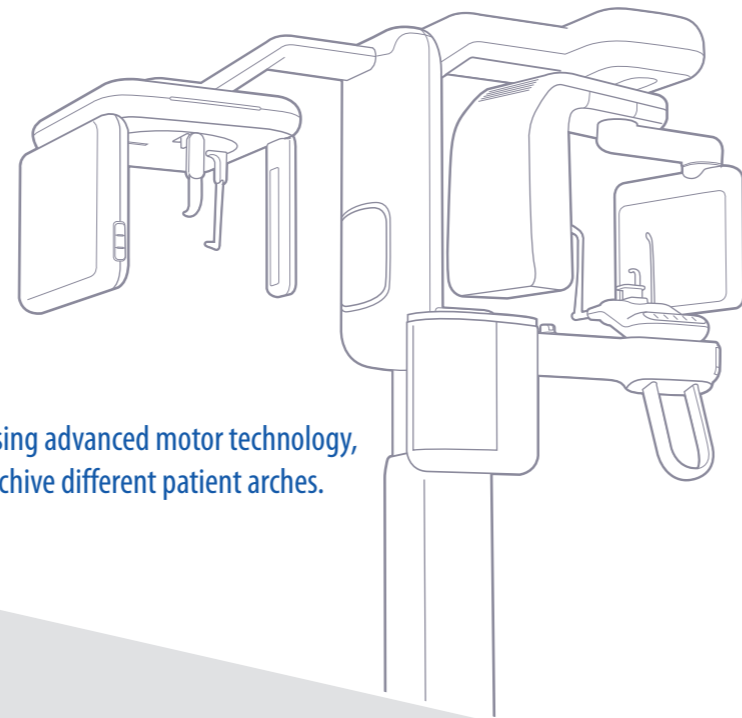
Various exposure modes : 75 um endo treatment mode, TMJ Simultaneous Diagnostic mode and Orthodontic Diagnostic mode. Multiple FOV sizes help to reduce the patient's exposure time while obtaining optimal images.





# Panoramic

High Resolution Panoramic Technology



Using advanced motor technology, archive different patient arches.

## Multi Focus

It is a function that is applied in panorama mode. It is designed to acquire multiple panorama images according to Depth Focus at the same time with one scan, and to automatically select the most optimized image among them.

## Multiple exposure modes for Panoramic

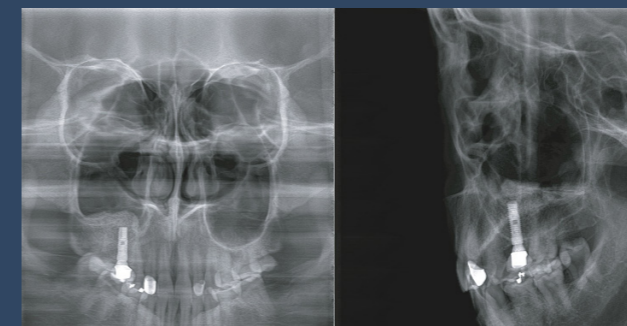
- Standard panoramic
- Orthogonal panoramic
- Bitewing panoramic
- TMJ PA double
- TMJ LAT-PA double
- Sinus lateral and sinus PA
- Child panoramic
- TMJ lateral double
- TMJ LAT-PA
- Horizontal & vertical
- X-ray segmentation



Standard panoramic



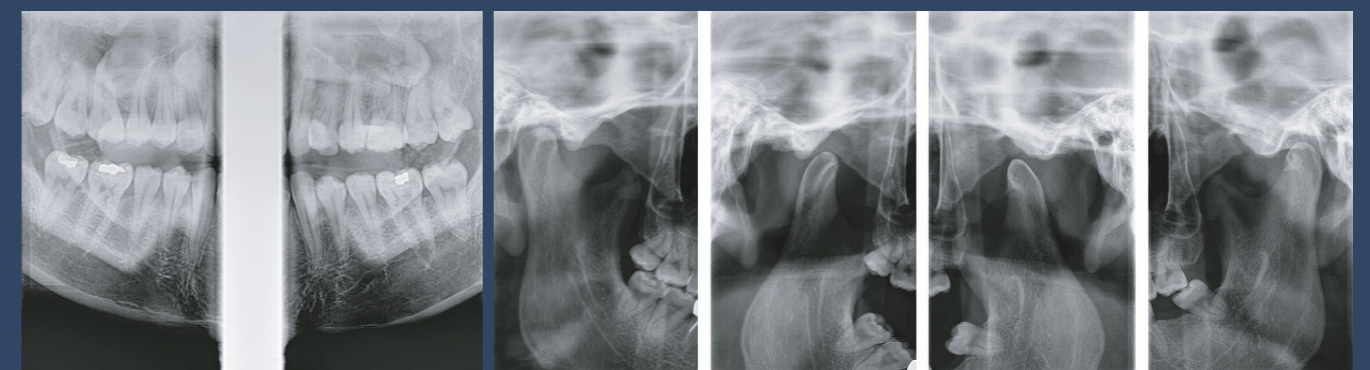
Orthogonal panoramic



Sinus PA / Sinus lateral midsagittal



X-ray segment



Bitewing

TMJ lateral double



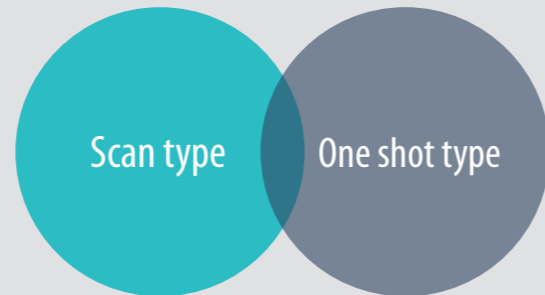
# Cephalometric

## High Resolution Cephalometric Technology

Designed for balance, it compensates for asymmetric problems between the panoramic and cephalometric options while reducing blurring during exposure to produce pristine images.

The FR Laser Guide provides the standard for Ceph images.

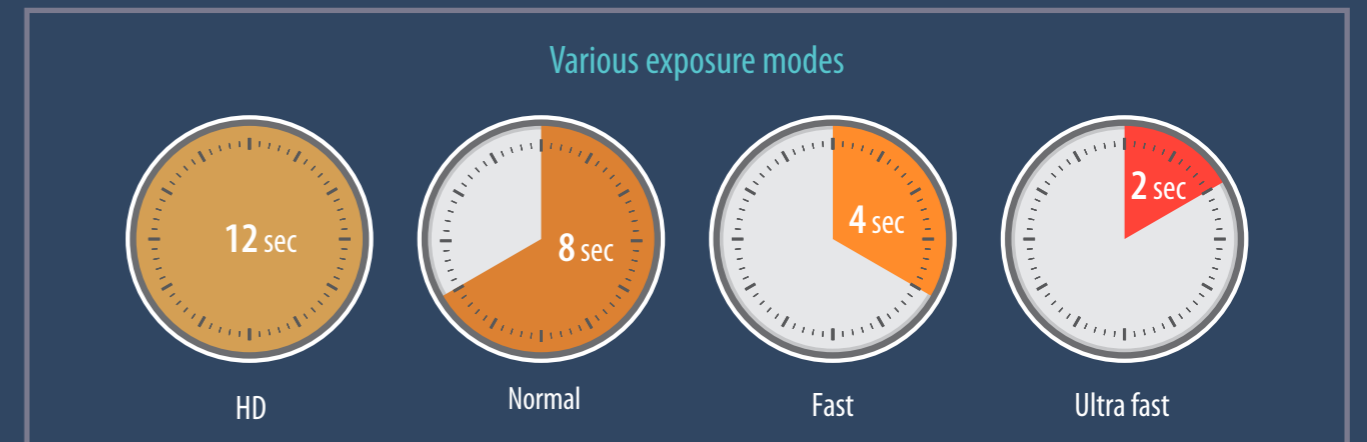
The Patient Positioning sensor takes into consideration the operator's convenience.



Ultra fast mode (2 sec)

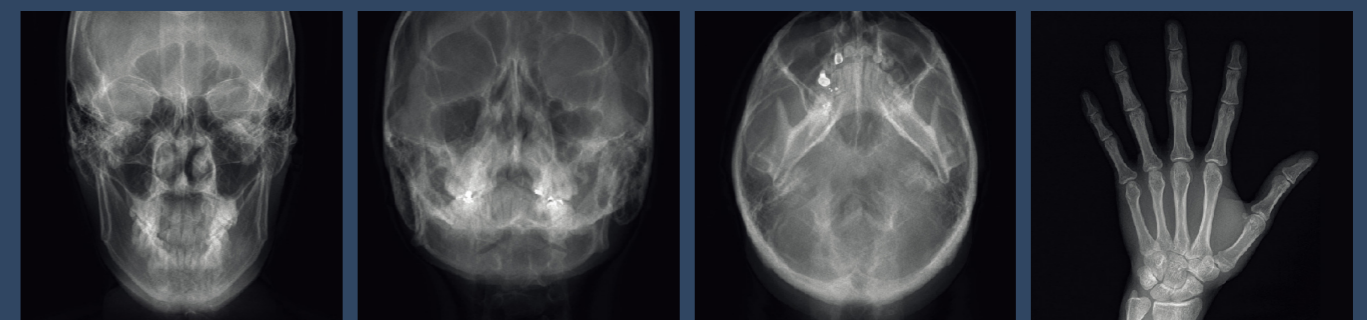


Normal mode (8 sec)



### Multiple exposure modes for Cephalometric

Lateral, AP, PA, Water's view, Submento vertex and carpus





# Theia<sup>NEW</sup>

Genoray 3D image viewer for accurate diagnosis



**3D Volume Rendering :**  
Various volume rendering options such as Gray, X-ray, MIP and etc provide 3D image visualization

## MPR (Multi-Planar Formatting)

MPR mode provides three plain view (axial, coronal and sagittal) on one screen for focused area diagnosis.

## Curved MPR

Possible to reconstruct the sectional images which is via any curves from Panoramic, Cross-sectional, Longitudinal

## TMJ Viewer

In TMJ viewer, through the cross-section and volume viewer, you can compare both left and right temporomandibular joints simultaneously to enable accurate diagnosis.

## External Output

Generating an external output on CD, DVD or USB storage of 3D volume data with free version of TRIANA.

## Measuring tools

Distance, angle, profile and arrow provides easy to use measuring tools.

## Implant planning

Multiple layout support and nerve implementation enables accurate implant planning.

## Support for DICOM 3.0

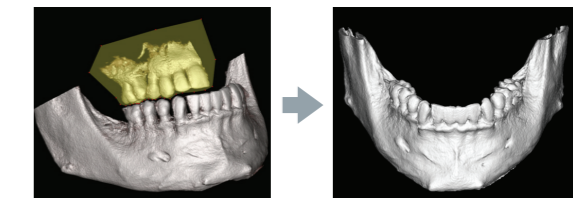


## STL Export

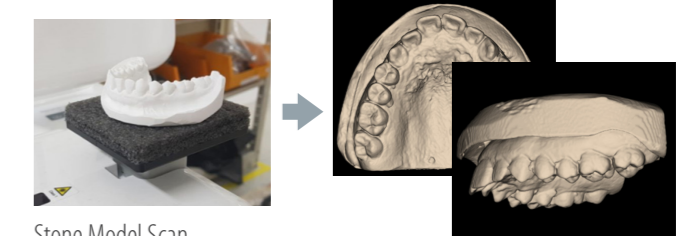
3D images can be divided freely and converted into STL data to enable 3D printer and CAD/CAM Software to be used.

## Enhanced Image Processing

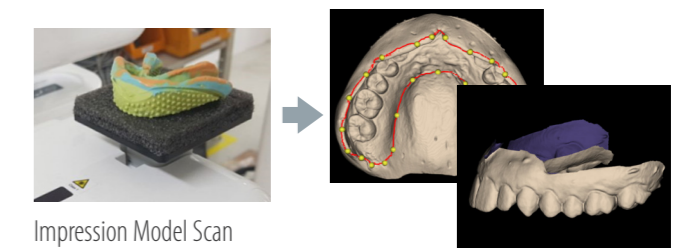
**SMARF™** (Smart Metal Artifact Reduction Function)  
Minimize the affects of Metal artifact to prevent deterioration of image quality by prosthesis to provide optimal images.



Patient Scan



Stone Model Scan



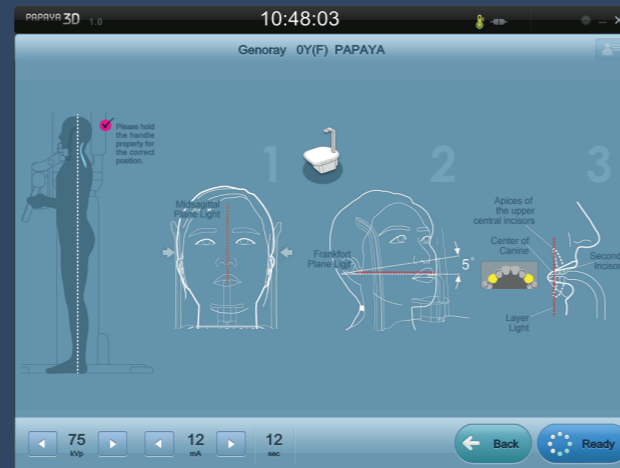
Impression Model Scan



## PAPAYA 3D operation software



Panoramic mode



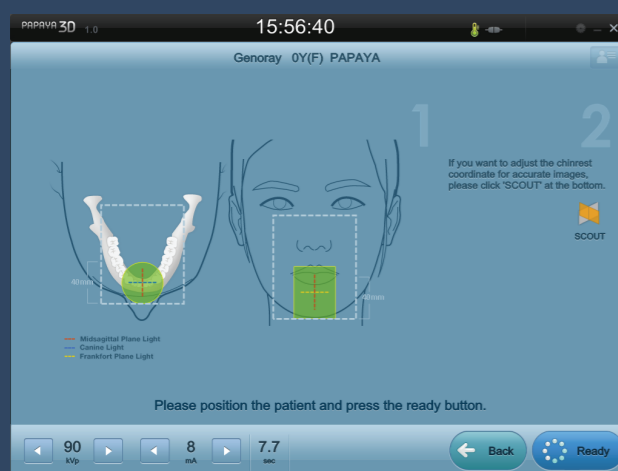
Patient positioning guide



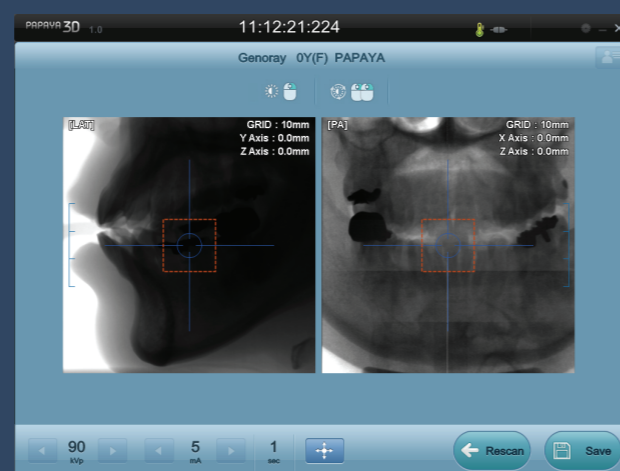
Cephalo mode



CT mode (adult)



CT Patient positioning guide (Full scan)

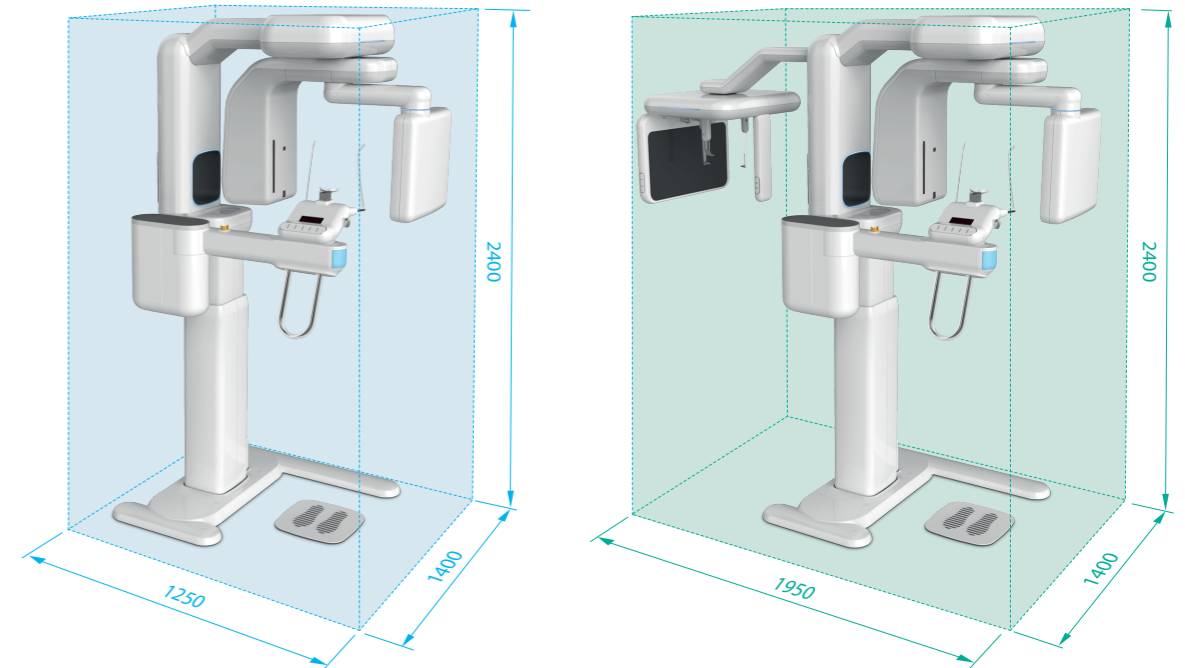


CT mode (adult)

## General

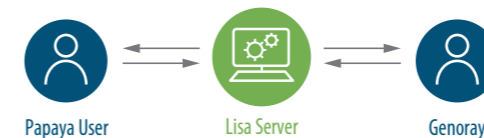
Items	Option	FOV/ROI (max, mm)	Voxel (μm)	Detector		Exp. Time (sec)
				Pitch(μm)	Size (mm)	
CT	ST	160 x 140	75~200	100 x 100	130 x 130	7.7 / 14.5
	MD	168 x 165	75~200	100 x 100	151 x 151	7.7 / 14.5
	MX	230 x 240	-	179 x 179	229 x 229	7.7 / 14.5
Cephalometric	SC	310 x 230	-	75 x 75	228 x 6.5	2 ~ 12
	OS	310 x 250	-	124	310 x 250	0.5 ~ 3.0
Panoramic	PX	-	-	75 x 75	152 x 6.5	9 ~ 17
*ST (Standard), MD (Mid), MX (Max), SC (Scan Ceph.), OS (Oneshot Ceph.), PX (Panoramic X-ray)						
Focal Spot	0.5 mm					
Target Angle	5°					
Tube Voltage	60 ~ 90 kV					
Tube Current	4 ~ 12 mA					
Line Voltage	220 V, 50/60 Hz					

## Dimensions



## Advance Maintenance Service System through IoT Technology

**LISA** [www.lisa.genoray.com](http://www.lisa.genoray.com)



SCD (Smart Connected Device) is a program that automatically transmits error-related contents (cause, area, etc.) from a set PC program to a LISA server. It is a system that the CS team analyze the problem and take action. We want to respond promptly to the problems we encounter and provide the best possible service.





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\* This X-ray unit may be dangerous to patient and operator unless safe exposure factors and operating instructions are observed.

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