

New Concept Multi-functional Imaging Systems



INTERNATIONAL DENTAL SUPPLY
OFFICE DESIGN - EQUIPMENT - PRODUCTS

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PLUS

PAPAYA

Dental X-ray Imaging system

PAPAYA
Digital X-ray System

Panoramic
Cephalometric
Tomography



New Concept/Multi-functional Imaging System, PAPAYA PLUS



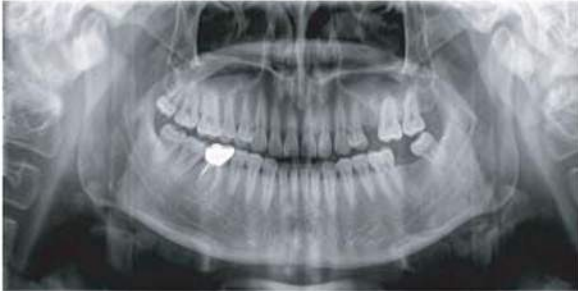
Meet the convergence of new technologies to create a stable technology to meet the challenges and hopes for a new world.

Genoray strives to fulfill a commitment to meet the every changing challenges in the Dental imaging industry through advances in technology.

Always creating technology of tomorrow for you, Genoray

Panoramic Imaging

- By choosing a CdTe sensor, which improves the image quality while keeping radiation exposure to a minimum, Genoray has shown that it puts patient's safety first.
- The CdTe (Cadmium telluride) sensor overcomes the limitations of a CMOS sensor to always produce high quality images.



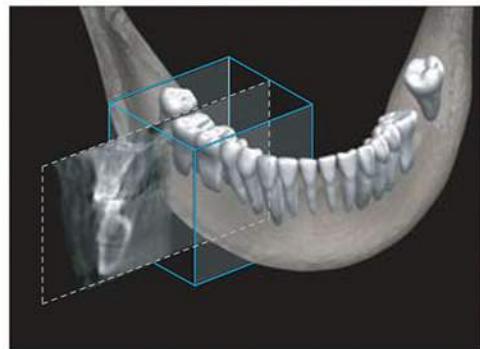
Cephalometric Imaging

- When compared to the standard scanning method, PAPA YA PLUS has the shortest scan time out there
- Among patient discomfort, image's swing, and distortion, they are reduced along with the short scan time.



Tomography Imaging

PAPAYA PLUS added Tomography function and without hardware upgrade and considering of manufacturing of Tomography function; in addition to S/W, PAPA YA provides Tomography image.



Minimal investment, Maximal benefit

PAPAYA provides true 3D imaging on a panoramic system, high image quality due to statistical reconstruction technique. 3D image have 256 cross-sectional slices having 0.27mm thickness and has FOV 7x7cm.

Panoramic

High Resolution Panoramic Technology

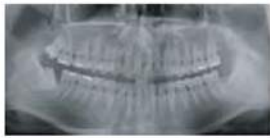


- The CdTe sensor produces a high quality image while reducing the amount of radiation exposure.
- The Multi-Focus function expands the operator's ability to analyze the image while avoiding to re-expose the patient.
- The flexible rotating structure and motorization of the PAPAYA allows for the various exposure mode.

Comparison Between The Different Detector Types

High-Definition images distinguish themselves from the old indirect conversion type of a CCD sensor. This should be the only way you view images

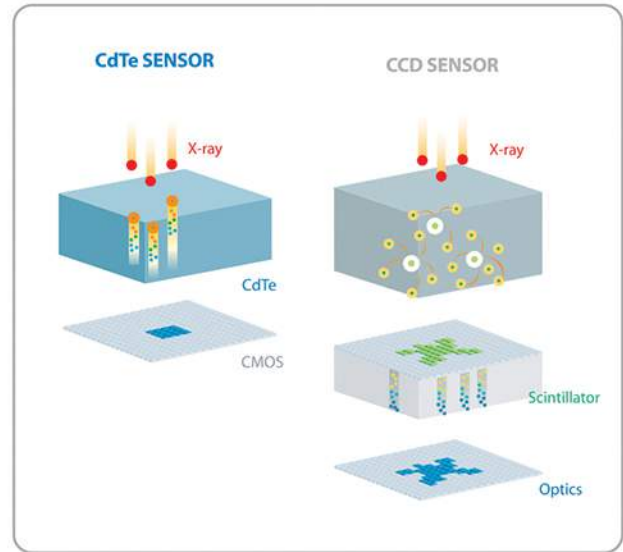
The most natural, sharp and clear view
The fastest readout circle, which improves imaging efficiency
The highest quality image with the lowest dose of radiation
The greatest choice of information for diagnostics



CdTe SENSOR



CCD SENSOR



User Friendly

PAPAYA increases user friendliness while maximizing efficiency



Face to face positioning



Jaw Shape
Fit each individual's jaw shape.



Voice support system
Machine's operation condition is guided by voice support system



Hand switch
Machine and hand switch's LED display can check the current condition of machine from anywhere.



Emergency switch
At emergency situation, machine is able to stop immediately because emergency switch is on hand switch.



Wheelchair accessible





Multi-Focus Function

Multi-focus function ables to overcome operator's mistake from patient's faulty positioning and re-exposing X-ray. By reconstructing image with software way, the panoramic images layer can be corrected by multi-focus function.



Only one scanning and acquired multiple image with maximum of 5 slices. It's slice interval can be varying 0.1 to 5mm.

Various exposure option

- Multiple jaw shapes
- Selectable image quality (Fast, Normal, HD)
- Pre-set for easy exposure condition setting
- Horizontal & vertical X-ray segmentation for dose reduction
- TMJ detail setting for reducing patient dosage

Exposure Programs

PAPAYA supports various kinds of exposure program, and they fulfill diagnosis needs.

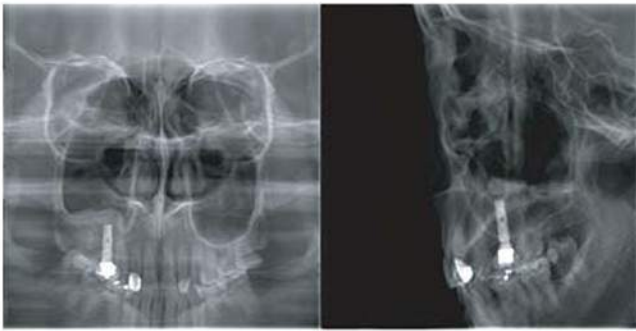
Standard panoramic, orthogonal panoramic, bitewing panoramic, child panoramic, TMJ lateral double, horizontal & vertical X-ray segmentation, TMJ PA double, TMJ LAT-PA, TMJ LAT-PA double, sinus lateral and sinus PA is supported.



Standard panoramic



Orthogonal panoramic



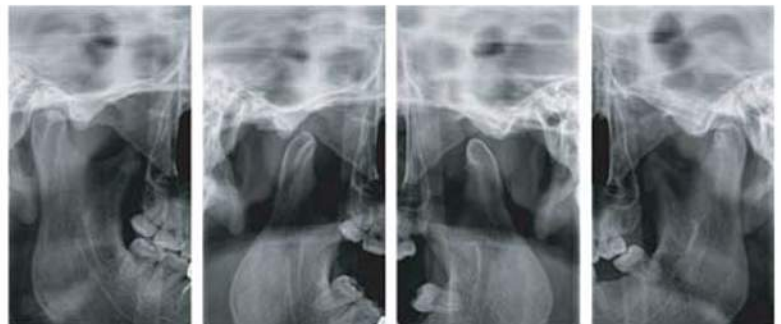
Sinus PA / Sinus lateral midsagittal



X-ray segment



Bitewing



TMJ lateral double

Cephalometric

High Resolution Cephalometric Technology



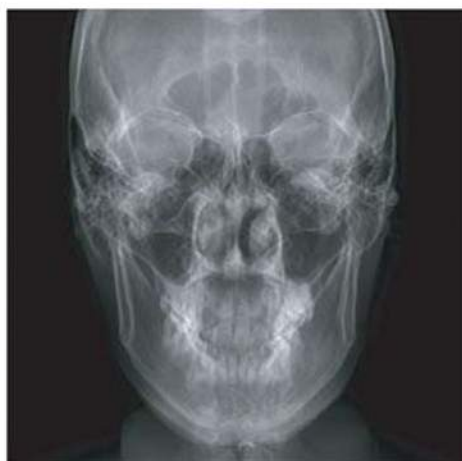
- The optimized mechanical structure designed for symmetrical balance that is made for enhanced safety and durability.
- The Cephalometric's FR laser makes it easy to position the patient.
- To avoid any operating mistakes, the position sensing sensor aids in the every exposure mode.
- It is enough only 4 second for scanning cephalo image on fast mode. This reduces motion artifacts.

Exposure Programs

PAPAYA PLUS supports various kinds of exposure program, and they fulfill diagnosis needs. Lateral, AP, PA, Water's view, Submento vertex, and carpus, are supported.



Lateral



AP



Water's view



Submento vertex



Carpus

TRIANA

TRIANA is able to manage all images from every dental modalities; panoramic, cephalometric, intraoral, 3D imaging dental tomography as well as still camera imaging and intraoral video.

Image viewing (Zoom, Paning, Comparing, Window Leveling)

Image enhancement, Printing (Paper, Film printer, WYSWYG), **Image import/export** (bmp,jpg,gif,png, dcm, etc)

Measurement (Distance, Angle), **Annotations** (Line, Arrow, Text, Stamp)

Implant Simulation, DICOM 3.0 compatibility (Storage (dicom send), film printer, worklist, etc)



PAPAYA operation software

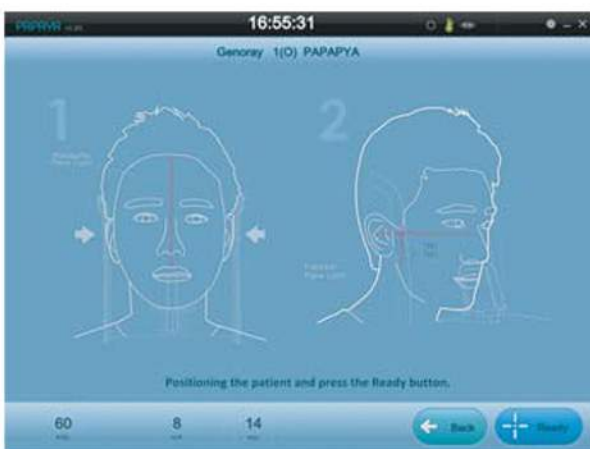
For operator's use of the software, it provides various information, and information is explained by picture. PAPAYA operation software is intuitively designed to help understanding by operator.



Panoramic exposure mode



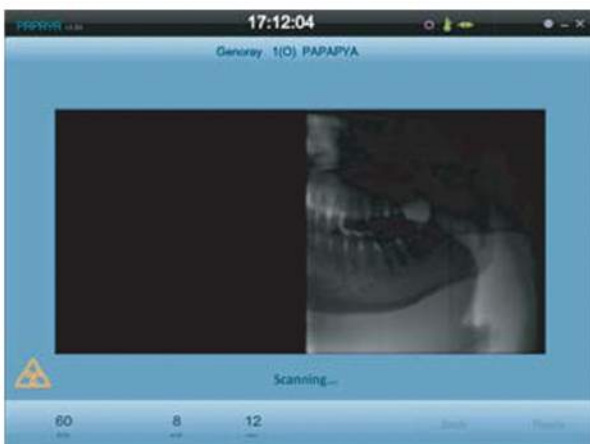
Cephalometric exposure mode



Patient positioning guide



Status display



Realtime preview



Exposed image display

Technical Specifications

GENERAL

Model	PAPAYA	PAPAYA Plus
Panoramic Exposure	●	●
Cephalometric Exposure	–	●
Exposure Time	Panorama	9~ 17 sec
	Cephalo	–
Image Field Height (mm ²)	Panorama	150
	Cephalo	–

FOCAL SPOT

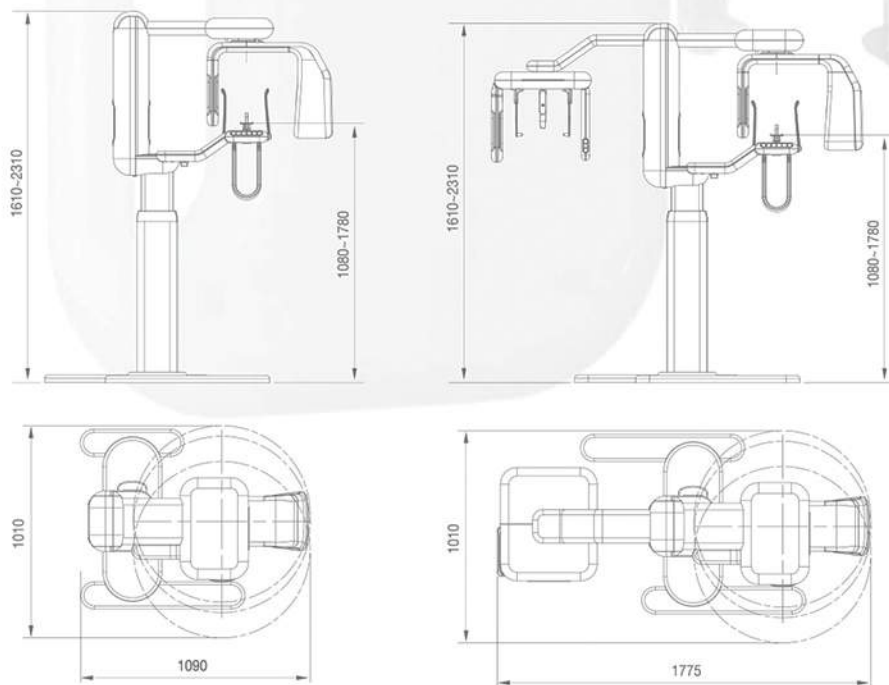
	0.5mm
Target Angle	5°
Maximum Tube Voltage	90kV
Minimum Tube Voltage	60kV
Anode Heat Storage Capacity	30kJ
Maximum Anode Heat Dissipation Rate	250W
Line Voltage	220 V, 50/60Hz

SENSOR

Type	Direct Conversion
Detector Technology	CdTe + CMOS
Data Interface	Giga Ethernet
Pixel Pitch	100um x 100um
MTF	Up to 80% @ 2.5lp/mm
Dynamic Range	≥72dB
DQE(70kV, 0 lp/mm)	≥0.8

* The specifications above can be changed to improve performance.

Dimensions



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