GENORAY

PAPAYA 3D^Plus

Combination Imaging System

1 Scan 3 Images
3 Dediated Detectors
CBCT
Panoramic
Cephalometric
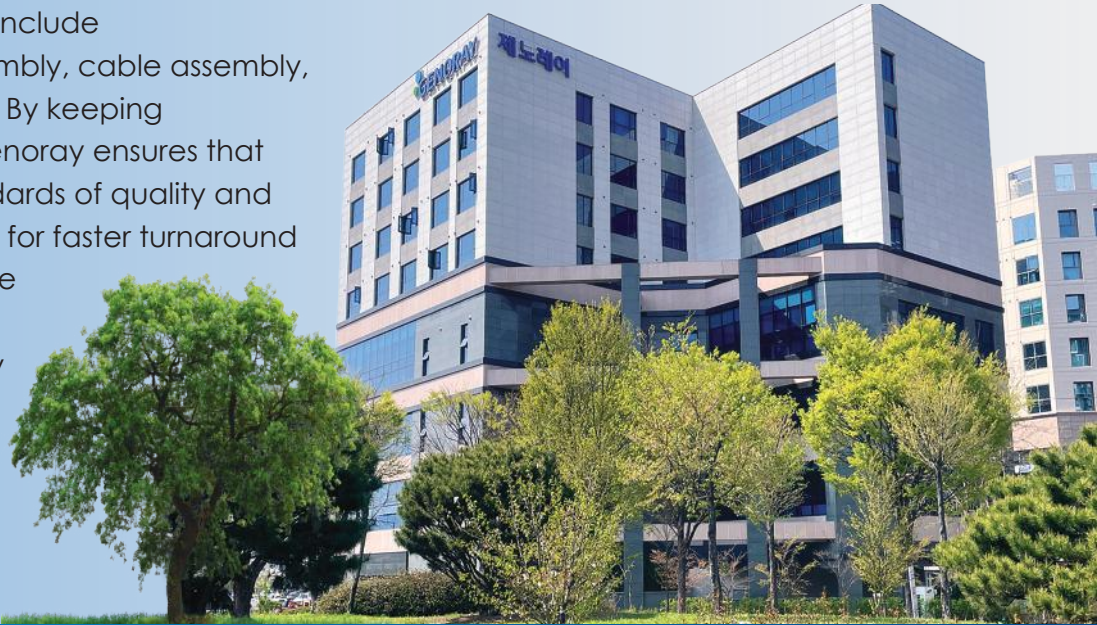

APPROVED
AERB
ATOMIC ENERGY REGULATORY BOARD
परमाणु ऊर्जा नियामक परिषद्

UNICORN
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FUTURE OF IMAGING

In House Manufacturing

Genoray is a Medical & Dental equipment manufacturer that offers in-house manufacturing of its products. This means that the company has complete control over the production process, from design to assembly, allowing for strict quality control. Genoray's in-house manufacturing capabilities include injection molding, PCB assembly, cable assembly, and final product assembly. By keeping manufacturing in-house, Genoray ensures that its products meet high standards of quality and reliability while also allowing for faster turnaround times and the ability to make modifications quickly. This approach enables Genoray to maintain a competitive edge in the market and provide its customers with top-quality medical & dental equipment.

Continuous R&D Investment

➢ 8-10% Investment in Annual Sales
➢ 30% of all Researchers have Masters & Doctorates
➢ R&D Performance - 72 Cases (Government, External & Self)
➢ Intellectual Property - 47 Patents, 27 Trademarks
➢ Certification Status - 85 Cases (Domestic & International)

R&D Through Cross-Over By Different Sectors

➢ Integrated Management of Medical & Dental Research
➢ Specialized Technology by Sector - R&D

Internalization Of Core Technology

➢ Manufacturing Technology of X-Ray Generators
➢ Inhouse development of Flat Panel Detectors
➢ 3D Image Processing with Correction Algorithm
➢ Dedicated Software Development - THEIA, TRIANNA

3 Dedicated Detectors

The Genoray Papaya 3D is equipped with three dedicated detectors that enhance its imaging capabilities. These dedicated detectors of the Genoray Papaya 3D work in synergy, enabling clinicians to obtain high-quality, detailed images for accurate diagnoses and effective treatment interventions.

PANORAMIC SENSOR

CT SENSOR

CEPHALOMETRIC

1 Scan 3 Images

The Genoray Papaya 3D imaging system revolutionizes dental diagnostics with its advanced capabilities. One scan with this cutting-edge device captures three highly detailed images, providing clinicians with a comprehensive view of the patient's condition.

CBCT

Panoramic

Ceph

All Axis Motorized Movement

(Up/Down/Left/Right)

Multi-FOV Selection

Multi-F.O.V. selection enables accurate scanning whilst keeping dose levels to a minimum.

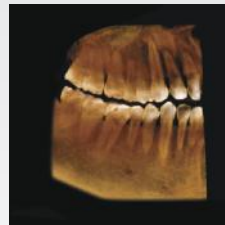| φ 4X5		**Endo**
		Endodontic
		75 μm
		Endo mode shows high definition images

φ 7X7		**Teeth**
		High Resolution | High Definition
φ 8X8		100 μm | 150 μm
		High contrast images of upper / lower jaw enable accurate diagnosis

φ 16X8		**Jaw**
		Normal Resolution
		200 μm
		Provides an image of the full arch
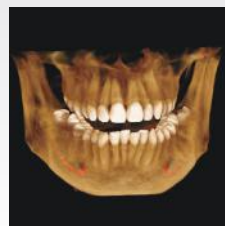
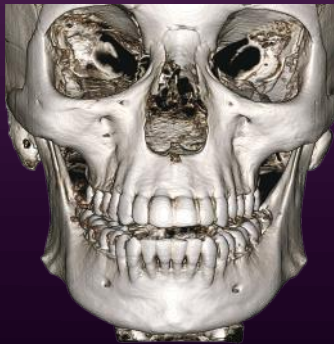| φ 16X14		**Face**
		Normal Resolution
		400 μm
		Full arch including relevant bone areas
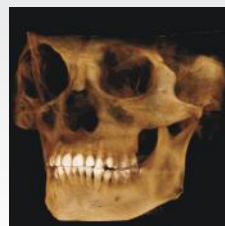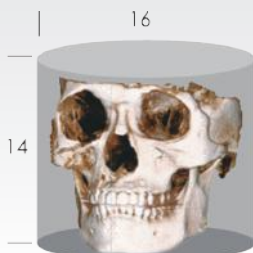
High Resolution Computed Tomography Technology

Clearly defined images in three dimensions provide users with accurate diagnostic information

3 in 1 CBCT

CBCT

PANORAMIC
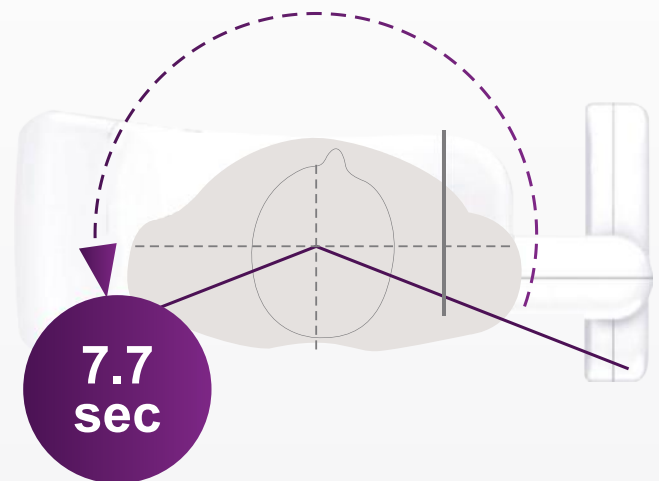
CEPHALOMETRIC

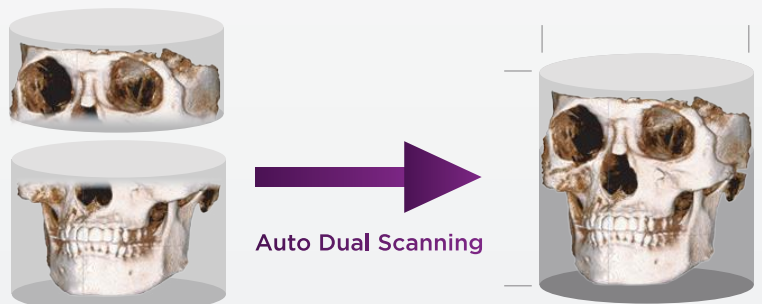## Automated Sensor Switching

Auto -Swing

Fast Scanning Mode

Scanning times as low as 7.7 seconds reduces dose, motion artifacts and image distortion.

7.7 sec

Auto Dual Scanning CT Technology

The wide high definition images can be enhanced by auto dual scanning technology.

Auto Dual Scanning

Improved Image Processing

SMARF™ (Smart Metal Artifact Reduction Function) minimizes the effect of metal artifacts caused by prosthetics to prevent image degradation.

Without SMARF

With SMARF

Cephalometric

Advanced Solution For Orthodontic Diagnosis
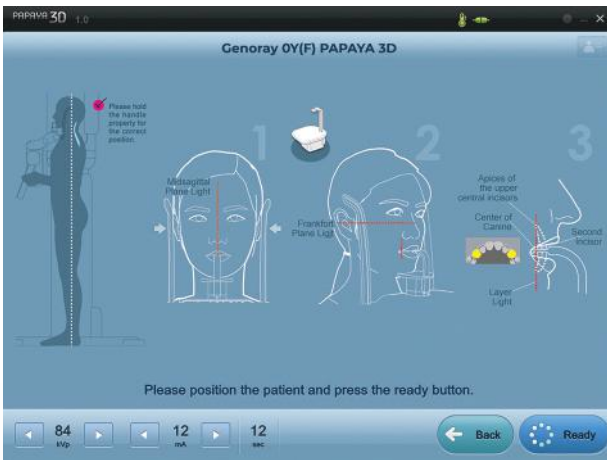

AP

SMV

Water View

Carpus

- ➢ The optimized mechanical structure is designed for symmetrical balance, enhanced safety and durability
- ➢ To optimise result, the sensor automatically positions for each exposure mode
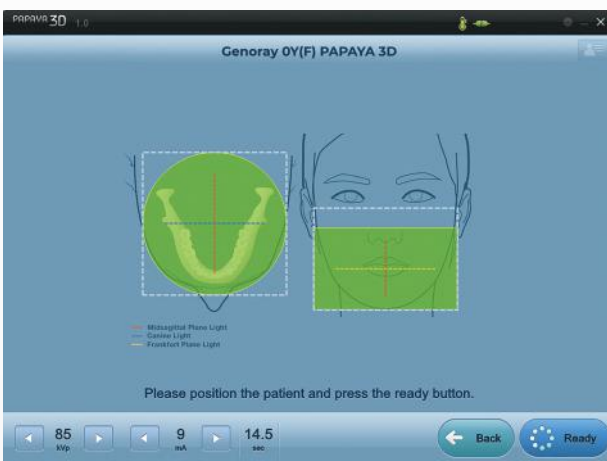- ➢ Only 4 seconds for scanning, a cephalo image in fast mode reduces motion artifacts

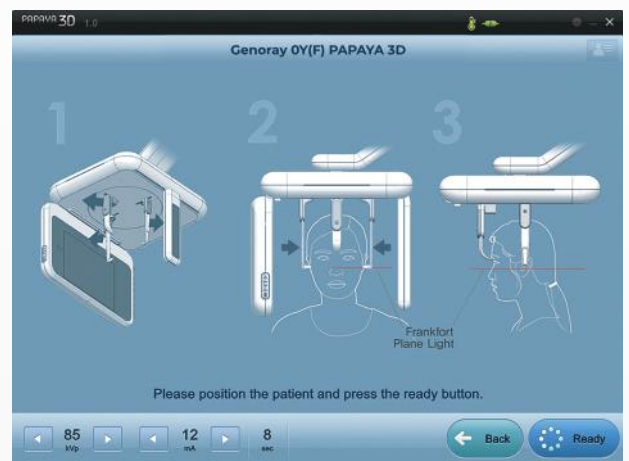# PAPAYA 3D Operation Software

Panoramic Patient Positioning Guide

CBCT Mode

CBCT Patient Positioning Guide

Cephalometric Patient Positioning Guide

Cephalometric Mode

Auto-Positioning Function
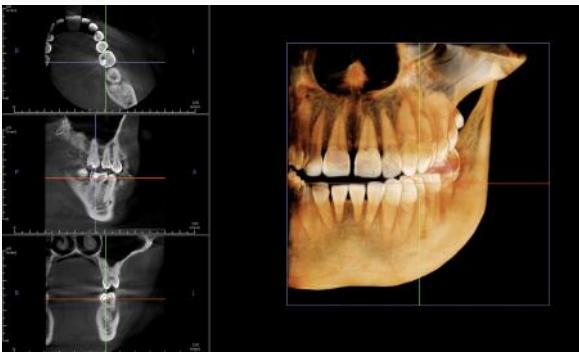
Invivo 6
Advanced 3D Imaging Software

The Invivo dental software is backend by Anatomage, Inc. Which is a medial imaging company composed of a cross-functional team consisting of the most elite researchers, mathematicians, engineers, software developers, business analyst, industry leaders, academic faculty and dental specialists.
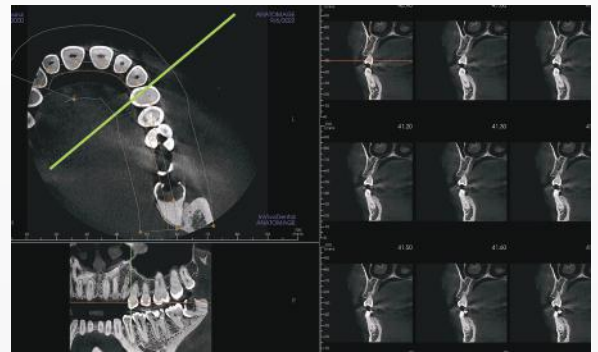
POWERFUL

MARKET LEADER

ONE SOFTWARE FOR ALL MODALITIES

RELIABLE

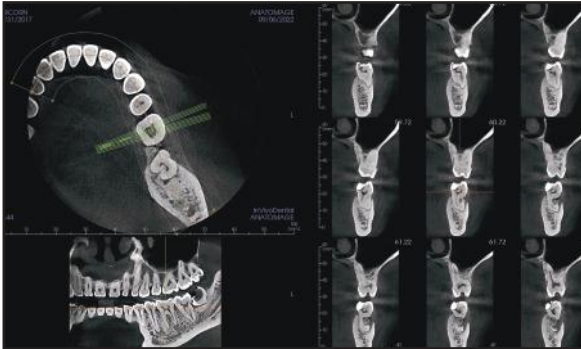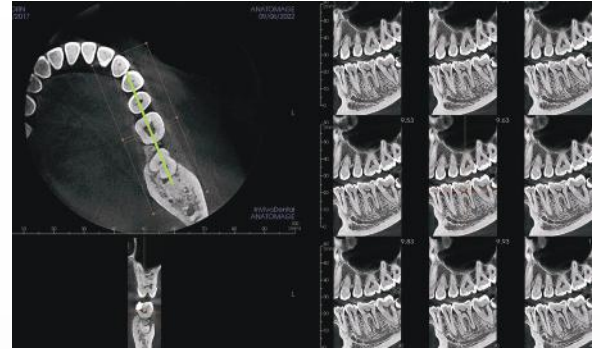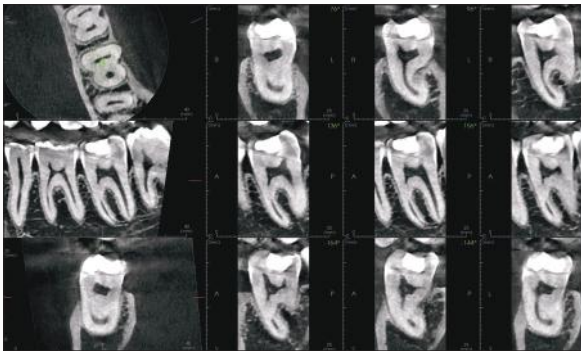**Layout**

MPR

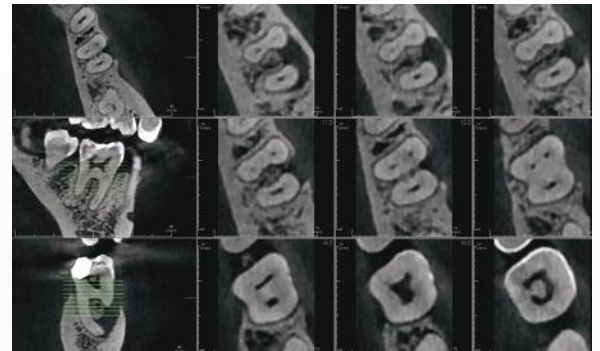**Section View**

Pano View
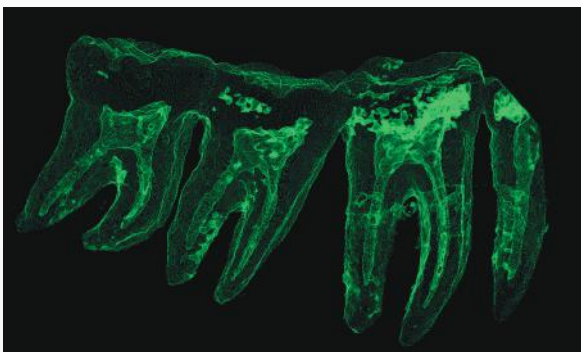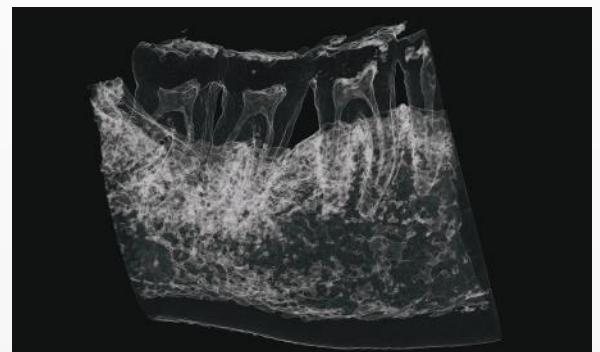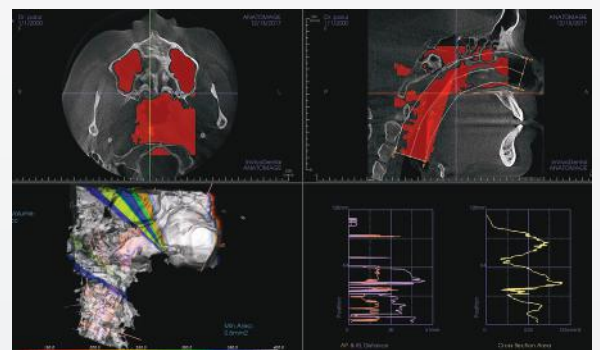
Invivo 6

Arch View

Arch View

Endo View

Endo View

Endo View

Endo View

TMJ View

Airway Analysis View

3D CT

PAPAYA 3D Technical Specification		
Exposure Time	**Panoramic**	9 ~ 17 sec
	Cephalometric	-
	CT	7.7/14.5 sec
Voxel Size	75~400 µm	
Focal Spot	0.5mm	
Target Angle	5^0	
Tube Voltage	60 ~ 90kV	
Tube Current	4~12 mA	
Gray Scale	14 bit	

Sensor

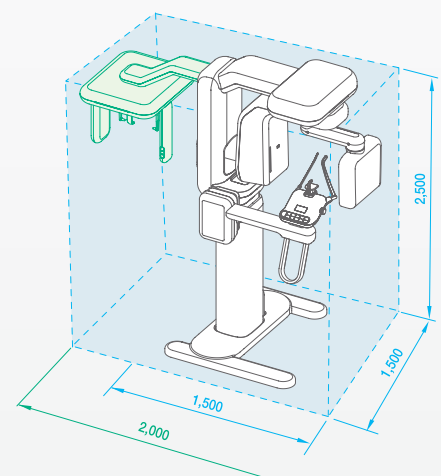| Exposure Time	CT	Panoramic	Cephalometric
Pixel Pitch	100 x 100 µm	75 x 75 µm	75 x 75 µm
Active Area	130.2 x 128 mm	152 x 6.5 mm	228 x 6.5 mm

Dimensions
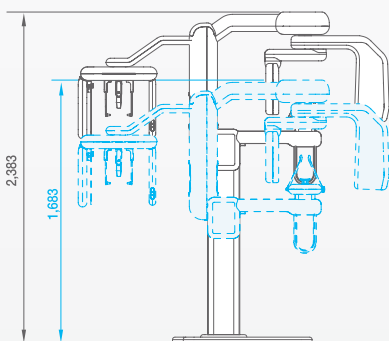
PAPAYA 3D
1,203(W) x 1,131(D) x 2,383(H) mm
145 kg
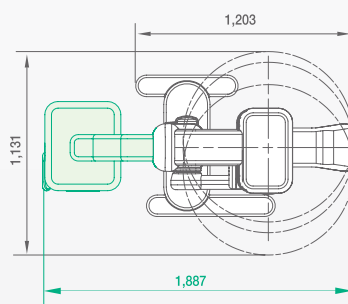
PAPAYA 3D Plus
1,887(W) x 1,131(D) x 2,383(H) mm
160 kg

Our Esteemed Clients of CBCT

S. No.	Doctor Name	City	State
1	Dr. Rahul Kumar	Purnea	Bihar
2	Dr. Vivek Kumar	Bhagalpur	Bihar
3	Mr. Sukhwinder Singh	Chandigarh	Chandigarh
4	Dr. Avni Dixit	Chandigarh	Chandigarh
5	Lumenare Dentofacial Imaging	Durg	Chhatisgarh
6	Dr. Radhika Sahni	Delhi	Delhi
7	Dr. Vikram Gandhi	Delhi	Delhi
8	Dr. Brij Sabharwal	Delhi	Delhi
9	College Of Dental Science And Research Centre	Ahemadabad	Gujarat
10	Karnavati School Of Dentistry	Gandhi Nagar	Gujarat
11	Dr. Shrey Italia	Ahemadabad	Gujarat
12	Dr. Pankaj Ishwarbhai Hotchandani	Ahmedabad	Gujarat
13	Dr. Vipul Patel	Rajkot	Gujarat
14	Manav Rachna Dental College	Faridabad	Haryana
15	SNM Hospital	Leh	Jammu & Kashmir
16	Celara Diagnostics Private Limited	Bengaluru	Karnataka
17	D. V. G. S. Dental Lab	Bengaluru	Karnataka
18	Dr. Tony Thomas	Palakkad	Kerala
19	Mr. Jaisal P.	Mallapuram	Kerala
20	Health Wave Diagnostics And Lab	Wayanad	Kerala
21	Dr. Surender Aggarwal	Bhopal	Madhya Pradesh
22	Dent Imaging Llp / CBCT Centre	Nashik	Maharashtra
23	Dr. Mahesh	Mumbai	Maharashtra
24	Dr. Naresh S Thakur	Mumbai	Maharashtra
25	Way To Care And Cure Diagnostic Centre	Kharghar	Maharashtra
26	Signature Smiles	Mumbai	Maharashtra
27	Diagnosys Plus Technologies	Pune	Maharashtra
28	Tata Memorial Centre	Parle	Maharashtra
29	Yavatmal CBCT Centre	Yavatmal	Maharashtra
30	Family Dental Care.. Nigeria	Overseas	Overseas
31	Dr. Deepak Dawar	Zirakpur	Punjab
32	Dr. Varun Chadha	Jalandhar	Punjab
33	Dr. Hardik Parekh	Amritsar	Punjab
34	Dr. Murugavel	Chennai	Tamilnadu
35	Dr. B. Akilananth	Coimbatore	Tamilnadu
36	Institute Of Dental Studies & Technologies	Modi Nagar	Uttar Pradesh

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OF
EXCELLENCE

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RADIOGRAPHIC EXCELLENCE

GENORAY

CBCT, Panoramic, Cephalometric, Model Scanning

PAPAYA 3D Premium Plus

4-in-1 CBCT Machine

APPROVED

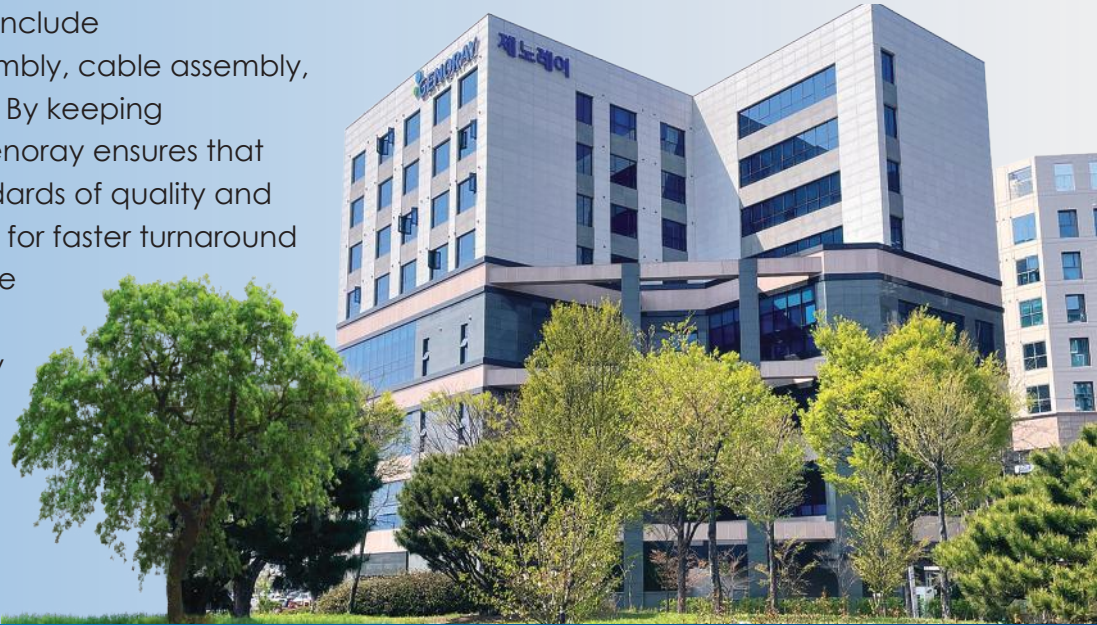परमाणु ऊर्जा नियामक परिषद्
पऊनिप
AERB
★ ATOMIC ENERGY REGULATORY BOARD ★

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R&D through cross-over by Different Sectors

- ▲ Integrated Management of Medical & Dental Research
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## Internalization of Core Technology

- ▲ Manufacturing Technology of X-Ray Generators
- ▲ Inhouse development of Flat Panel Detectors
- ▲ 3D Image Processing with Correction Algorithm
- ▲ Dedicated Software Development - THEIA, TRIANNA

CBCT

Free F.O.V & Dose Reduction:

Provides various F.O.V sizes and resolutions for all diagnostic needs.

Produces optimized images with minimal radiation exposure.

Φ 4x5

Φ 8x8

Φ 16x8

Φ 16x14

Φ 23x14

Φ 23x24* Optional
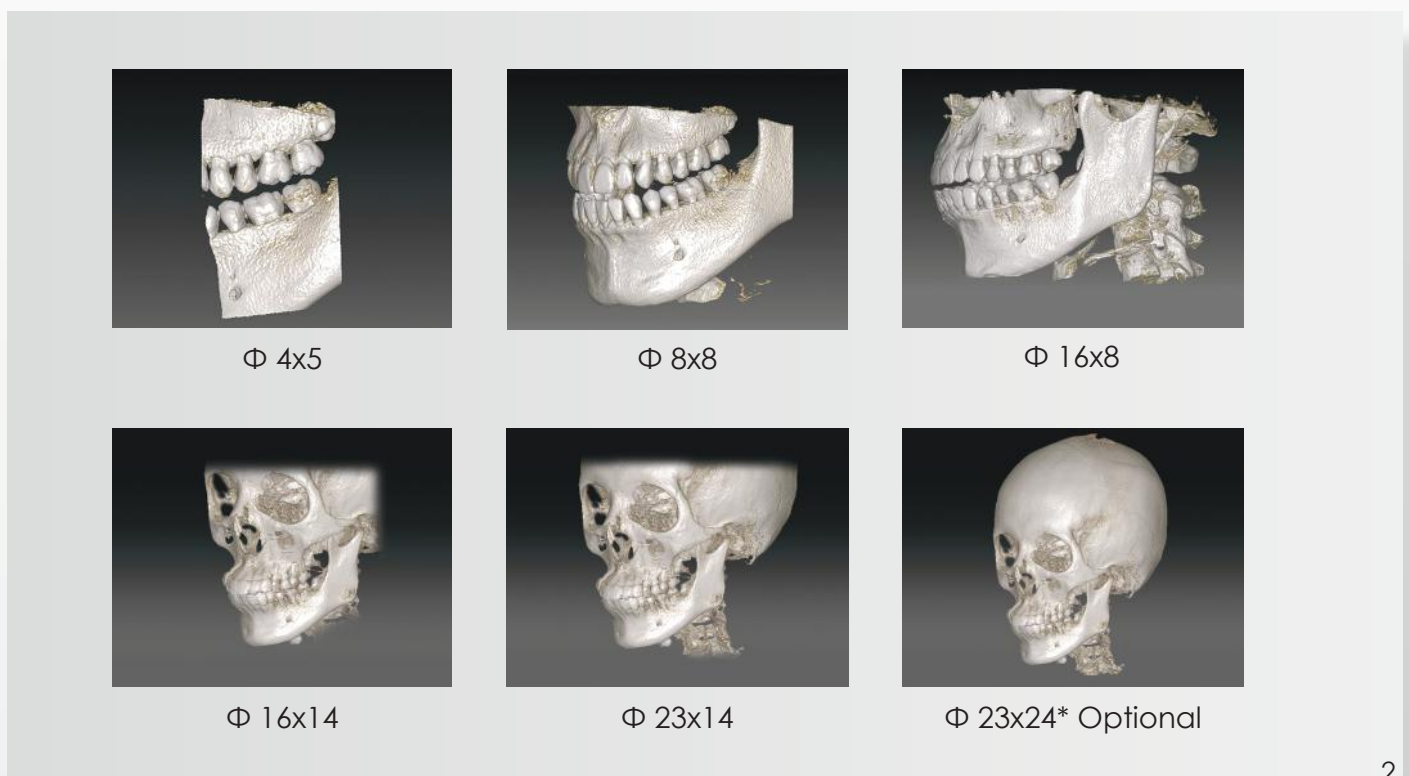
Panoramic

Multi Focus

Helps acquire the best optimized image from the multiple panoramic images acquired.
The multi-focus funtion overcomes patient mis-positioning. The user is therefore able to find the most optimally-focused choice from a seletion of images.

Standard Panoramic	TMJ Lateral Double
Orthogonal Panoramic	TMJ LAT-PA
Bitewing Panoramic	Sinus Lateral & Sinus PA
TMJ PA Double	Child Panoramic
TMJ LAT-PA Double	Segmented View
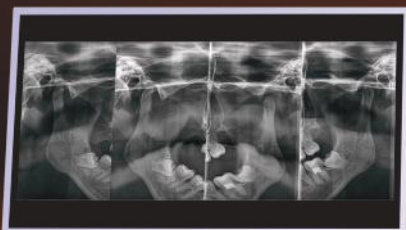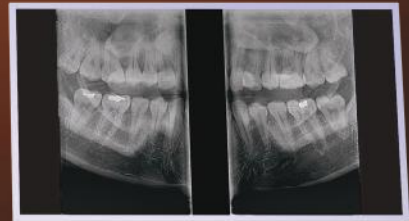
Ceph

Ultra fast mode (2 sec)
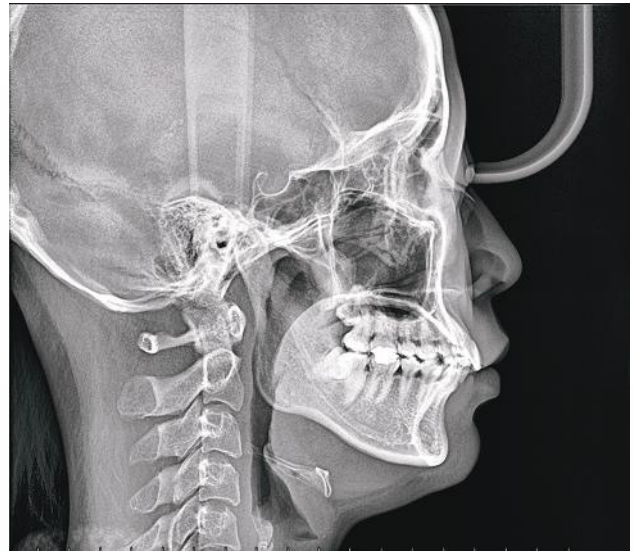
Normal mode (8 sec)

Various Radiation Exposures

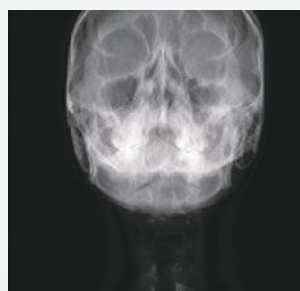**HD**
12 sec

Normal
8 sec
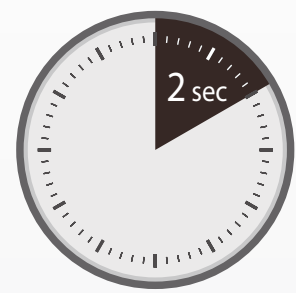
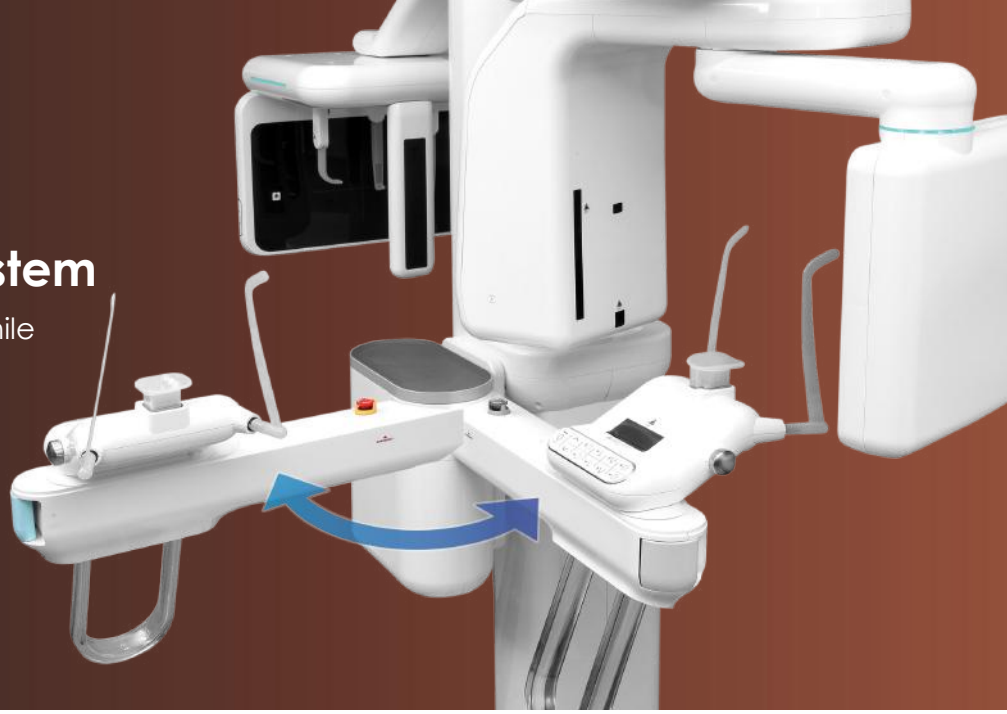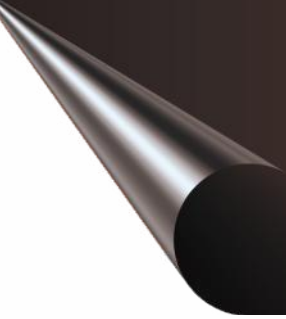**Fast**
4 sec

Ultra fast
2 sec

Multiple Exposure Modes For Cephalometric

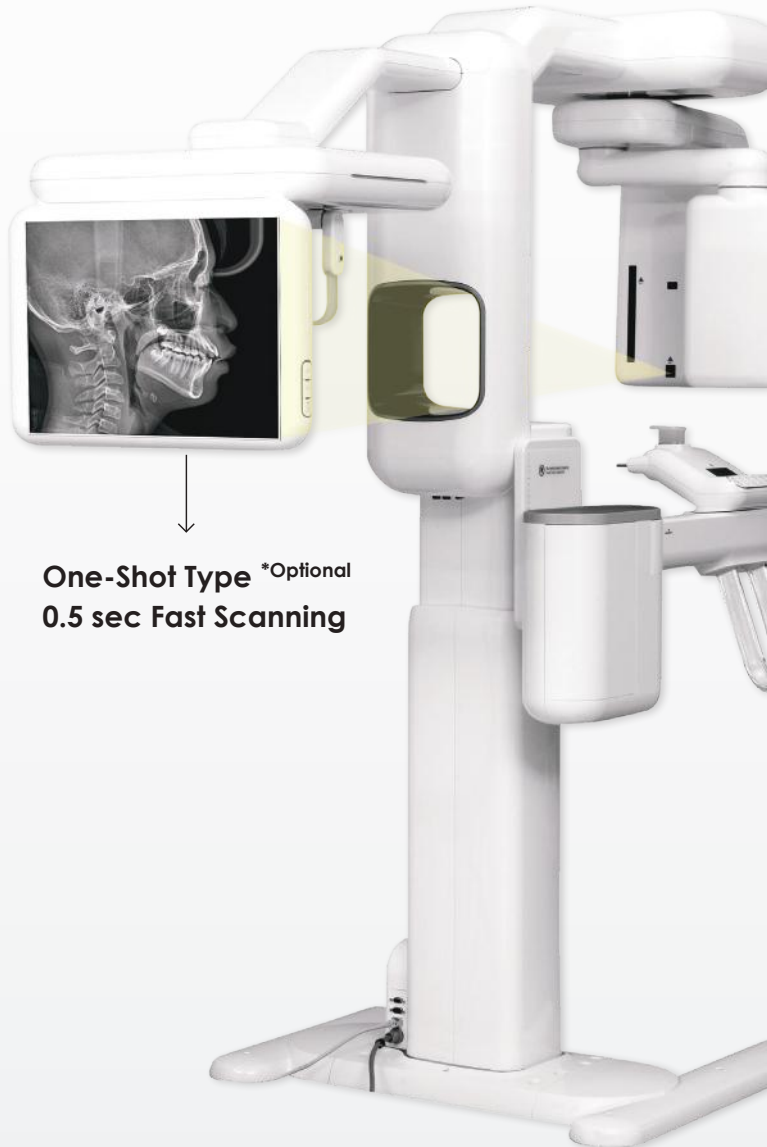Lateral, AP, PA, Water's view, Submento vertex and Carpus

Foldable Chinrest System

Convenient patient positioning while saving room space

Easy access for disabled patients

One-Shot Cephalometric system provides distortion-free images with minimal motion artifacts

Chair *Optional

Minimizes the patient's movements to help reduce patient's motion artifacts

One-Shot Type *Optional
0.5 sec Fast Scanning

3D Volume Rendering
Various volume rendering options such as, X-Ray, MIP 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

Dental Reformatting
Using panoramic, cross-sectional and longitudinal 2D view, you can plan your 'perfect' implant positioning

Image Color-mapping
Color mapping increases the visibility of lesions

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

Complete Implant Library

Support for DICOM 3.0

Improved image processing
SMARF™ (Smart Metal Artifact Reduction Function) minimizes the effect of metal artifacts caused by prosthetics to prevent image degradation.
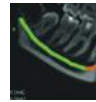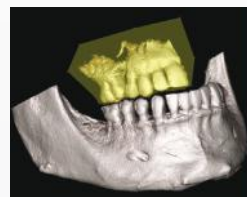
STL Export
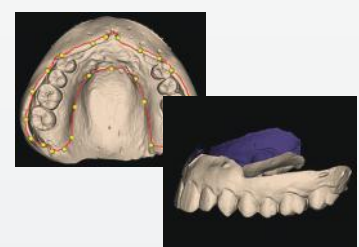Enables 3D printer and CAD/CAM to be used by converting 3D images to STL data.

Patient Scan

Stone Model Scan

Impression Model Scan
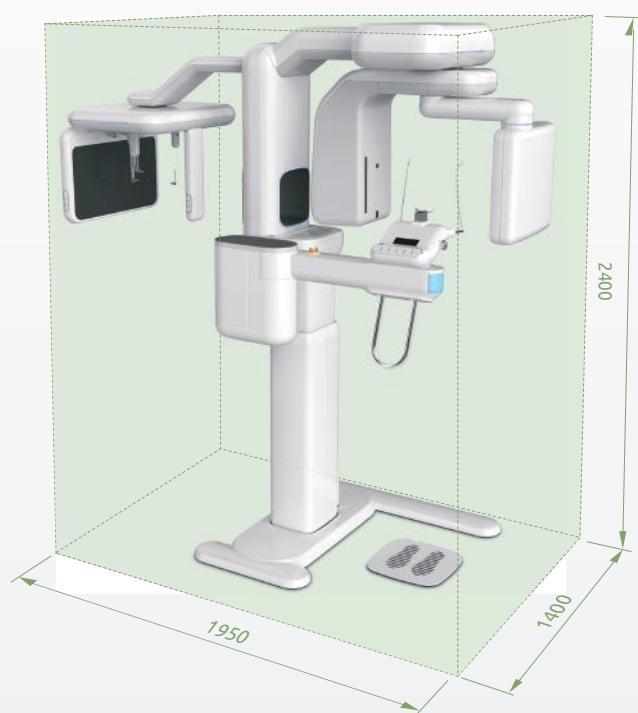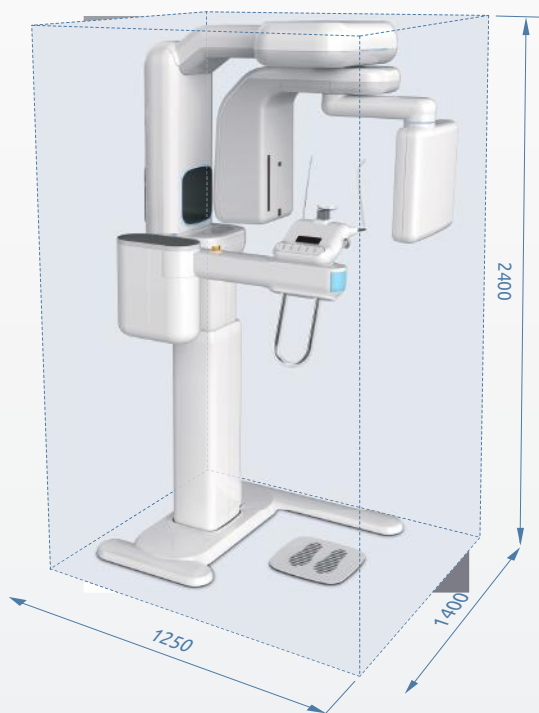
General Specifiations

| Items	Option	FOV/ROI (max, mm)	Voxel (µm)	Detector Pitch (µm)	Detector Size (mm)	Exp. Time sec
CT	NV	40X50~ 160 X 140	75~400	100 X 100	130 X 130	7.7/14.5
	LV	40X50~ 230 X 245	75~400	179 X 179	229X229	7.7/14.5
Cephalometric	SC	300X225	-	75X75	228X6.5	2~12
	OS	317X254	-	124X124	310X250	0.5~3.0
Panoramic	PX	--	-	75x75	152x6.5	9~17
	NV (Normal Volume), LV (Large Volume), SC (Scan Ceph), OS (One-Shot Ceph)					
Focal Spot	0.5 mm					
Target Angle	5^0					
Tube Voltage	60~90kV					
Tube Current	4~12 mA					

Dimensions

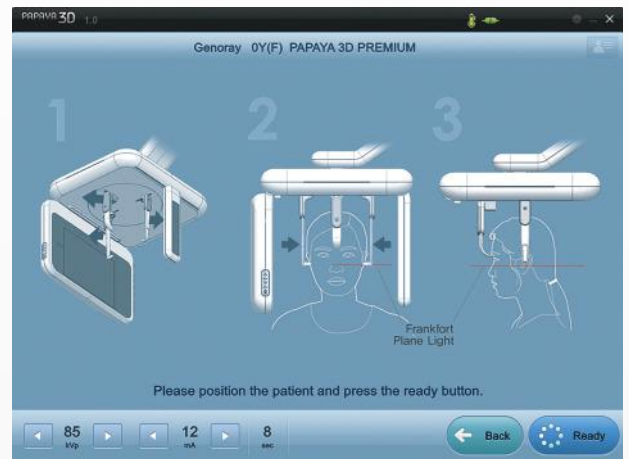# PAPAYA 3D Premium Operation Software
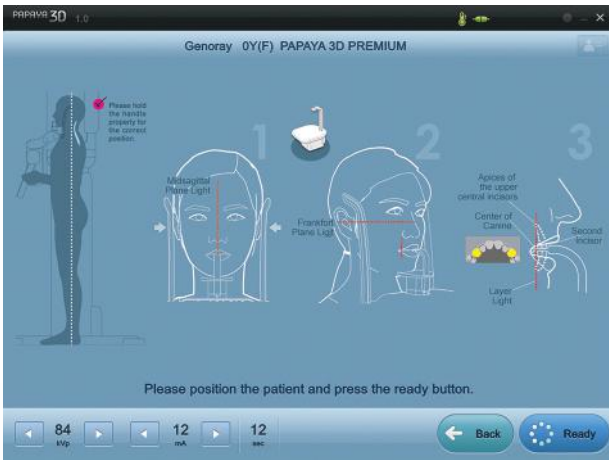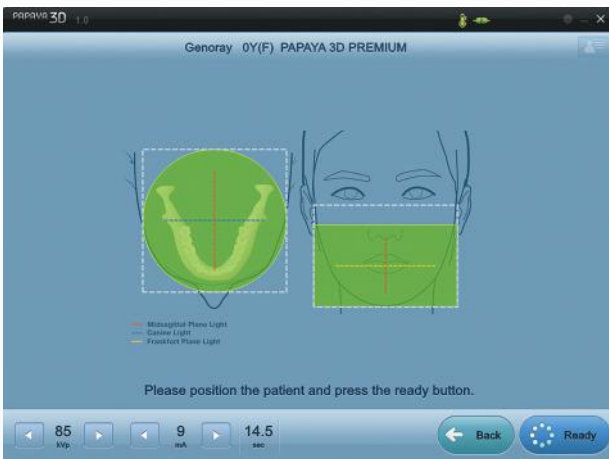
Panoramic Patient Positioning Guide

CBCT Mode

CBCT Patient Positioning Guide

Cephalometric Patient Positioning Guide

Cephalometric Mode

Auto-Positioning Function

Invivo 7
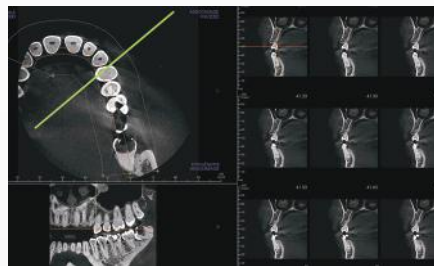## Advanced 3D Imaging Software

POWERFUL

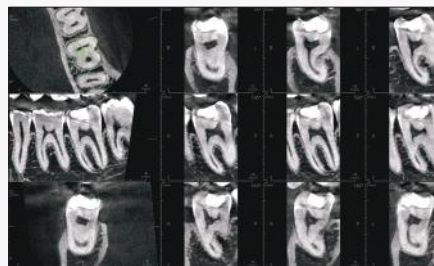MARKET LEADER

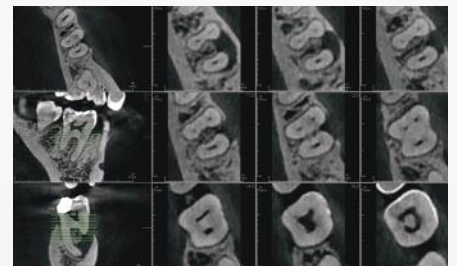ONE SOFTWARE FOR ALL MODALITIES

RELIABLE

Layout

MPR

Section View

Pano View

Endo View

Endo View
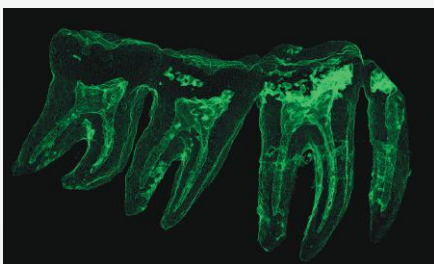
Endo View
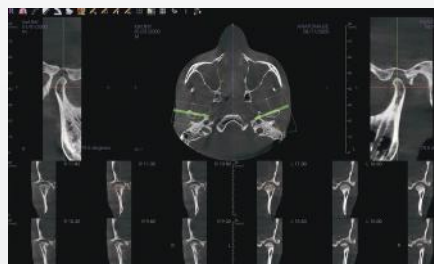
TMJ View
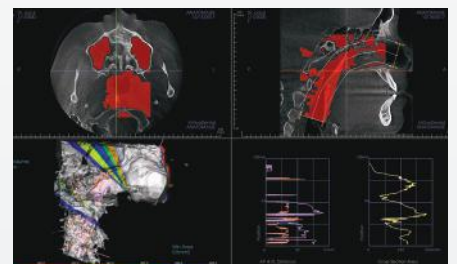
Airway Analysis View

Our Esteemed Clients of CBCT

S. No.	Doctor Name	City	State
1	Dr. Rahul Kumar	Purnea	Bihar
2	Dr. Vivek Kumar	Bhagalpur	Bihar
3	Mr. Sukhwinder Singh	Chandigarh	Chandigarh
4	Dr. Avni Dixit	Chandigarh	Chandigarh
5	Lumenare Dentofacial Imaging	Durg	Chhatisgarh
6	Dr. Radhika Sahni	Delhi	Delhi
7	Dr. Vikram Gandhi	Delhi	Delhi
8	Dr. Brij Sabharwal	Delhi	Delhi
9	College Of Dental Science And Research Centre	Ahemadabad	Gujarat
10	Karnavati School Of Dentistry	Gandhi Nagar	Gujarat
11	Dr. Shrey Italia	Ahemadabad	Gujarat
12	Dr. Pankaj Ishwarbhai Hotchandani	Ahmedabad	Gujarat
13	Dr. Vipul Patel	Rajkot	Gujarat
14	Manav Rachna Dental College	Faridabad	Haryana
15	SNM Hospital	Leh	Jammu & Kashmir
16	Celara Diagnostics Private Limited	Bengaluru	Karnataka
17	D. V. G. S. Dental Lab	Bengaluru	Karnataka
18	Dr. Tony Thomas	Palakkad	Kerala
19	Mr. Jaisal P.	Mallapuram	Kerala
20	Health Wave Diagnostics And Lab	Wayanad	Kerala
21	Dr. Surender Aggarwal	Bhopal	Madhya Pradesh
22	Dent Imaging Llp / CBCT Centre	Nashik	Maharashtra
23	Dr. Mahesh	Mumbai	Maharashtra
24	Dr. Naresh S Thakur	Mumbai	Maharashtra
25	Way To Care And Cure Diagnostic Centre	Kharghar	Maharashtra
26	Signature Smiles	Mumbai	Maharashtra
27	Diagnosys Plus Technologies	Pune	Maharashtra
28	Tata Memorial Centre	Parle	Maharashtra
29	Yavatmal CBCT Centre	Yavatmal	Maharashtra
30	Family Dental Care.. Nigeria	Overseas	Overseas
31	Dr. Deepak Dawar	Zirakpur	Punjab
32	Dr. Varun Chadha	Jalandhar	Punjab
33	Dr. Hardik Parekh	Amritsar	Punjab
34	Dr. Murugavel	Chennai	Tamilnadu
35	Dr. B. Akilananth	Coimbatore	Tamilnadu
36	Institute Of Dental Studies & Technologies	Modi Nagar	Uttar Pradesh

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