

THE GATEWAY TO 3D IMAGING
EMPOWER YOUR PRACTICE

Ray



RAYSCAN α 3D

FACE-DRIVEN SOLUTION

Experience precise imaging of dental and facial structures with RAYSCAN α 3D. Our equipment is equipped with essential features to achieve personalized treatment plans and aesthetic results while prioritizing patient comfort and safety. Our technology ensures thorough scans with minimal radiation exposure, helping doctors enhance patient care and transform smiles

3D Face
Scanner



CBCT



Intraoral
Scanner

EMPOWER WITH 3D IMAGING

RAYSCAN α 3D

RAYSCAN 3D allows for comprehensive clinical perspectives, enabling confident diagnoses and treatment plans, by providing optimal FOV size and resolution essential for dental treatment.



Optimal FOV size for 3D Diagnosis

FOV 10×10 max.
Predefined FOV

Implantology, Endodontics, Orthodontics
and single TMJ

High Resolution

$100 \mu\text{m}$ $160 \mu\text{m}$
FOV 9×5 FOV 10×10

Accurate results instill confidence
in your diagnosis

Rapid Reconstruction Time

20_{sec}
HD Scan

Ability to quickly review CT images and
dramatically cut down on chair time

Remote Control

Improved Patient Positioning &
Operator Ergonomics

Simple and intuitive scans

Optimal FOV size for 3D diagnosis

RAYSCAN α 3D is designed to offer a 10×10 FOV for effective dental diagnosis.



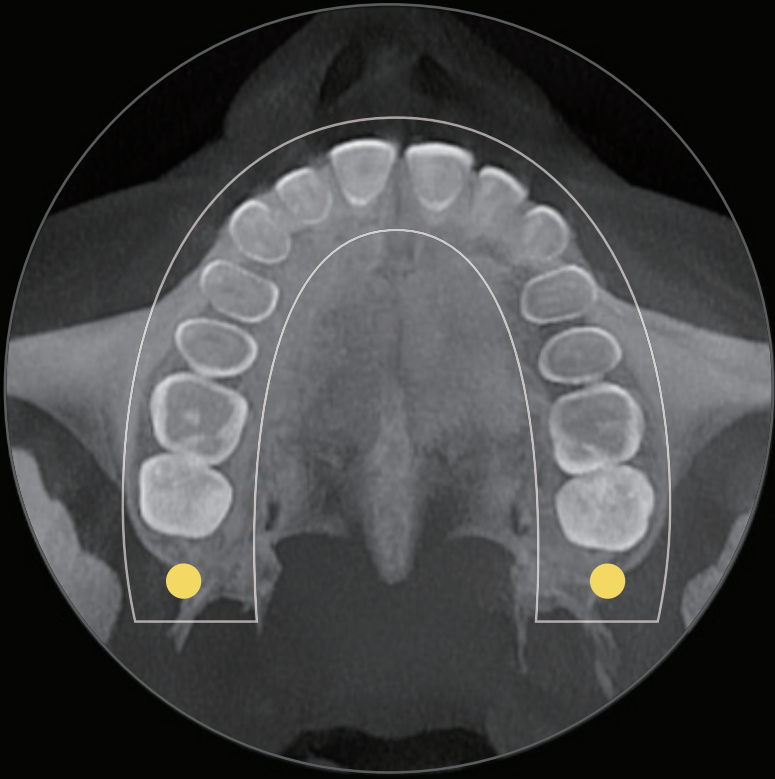
10 diameter

10 height

10 diameter

The diameter of the FOV can extend to 10cm, allowing for examination of the entire dentition, third molars, and a single TMJ, ensuring an optimal FOV size.

- Full dentition
- 3rd molar
- RAYSCAN α 3D area



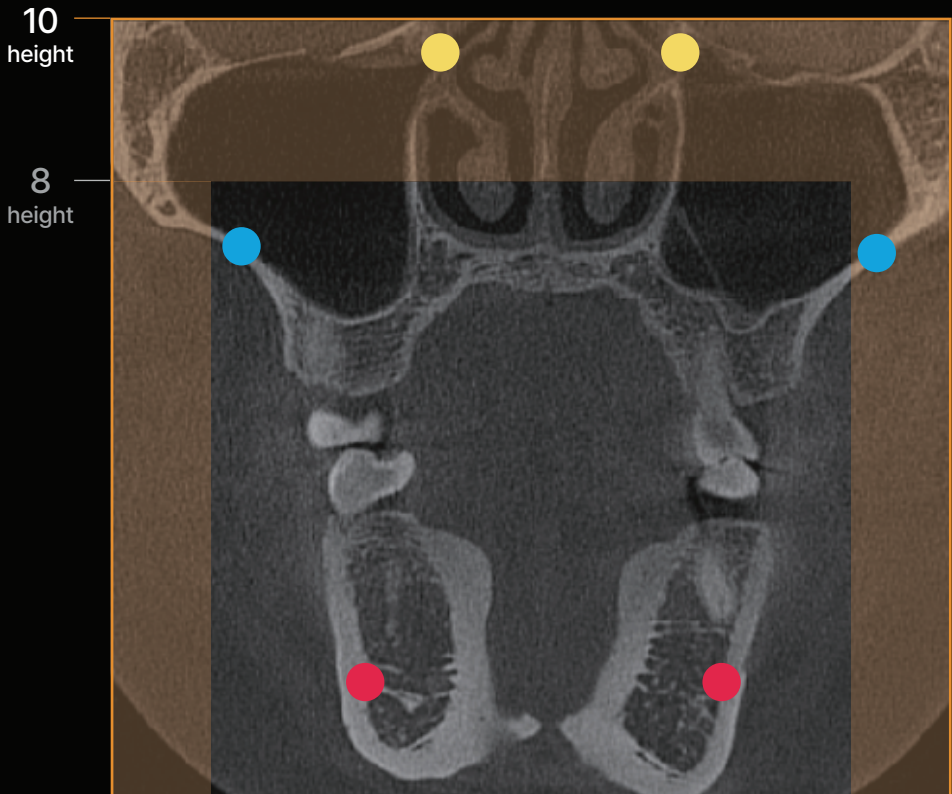
10 height

The field of view (FOV) can extend vertically to 10cm, enabling simultaneous examination of the inferior alveolar nerve, complete dentition, maxillary sinus, sinus artery, and ostium. This capability proves advantageous not only for maxillary and mandibular implant treatment planning but also as a valuable feature for implant surgical guide planning. Moreover, in orthodontic treatments, it facilitates the comprehensive assesment of deeply impacted teeth and supernumerary teeth in a single scan.

- Competition
- RAYSCAN α 3D scan area
- Ostium
- Sinus artery
- Mandibular nerve canal

For Implantology & Orthodontics

- Implant surgery plan and surgical guide
- 3rd molar extraction
- Orthodontic treatment plan
- Complex impactions
- Single TMJ analysis

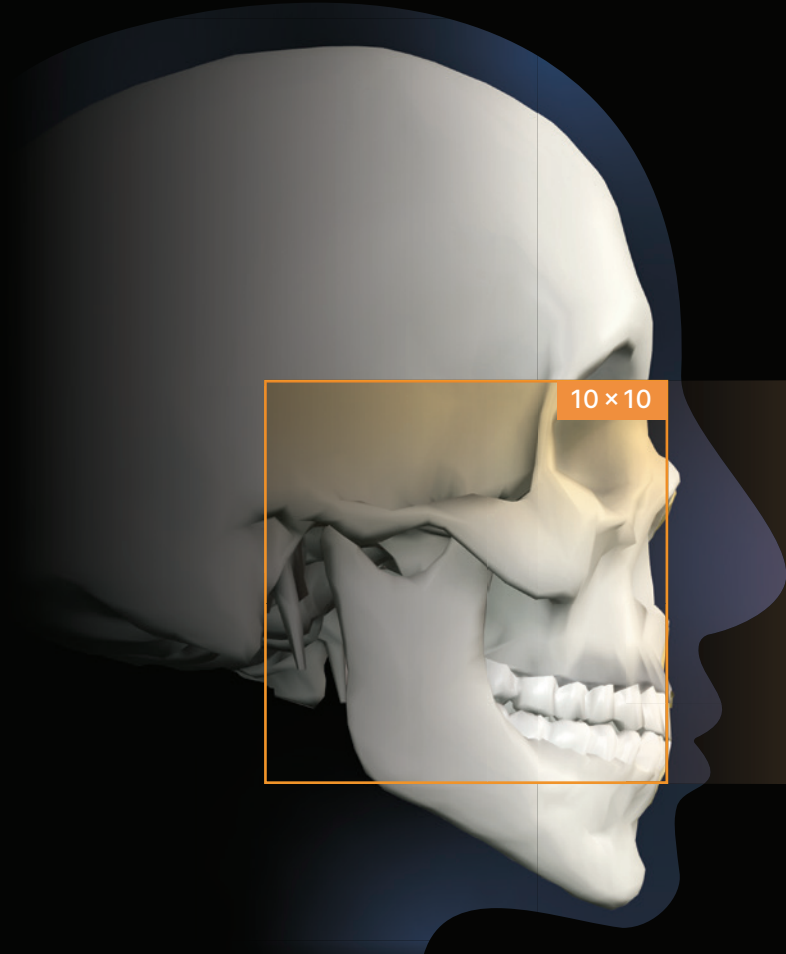
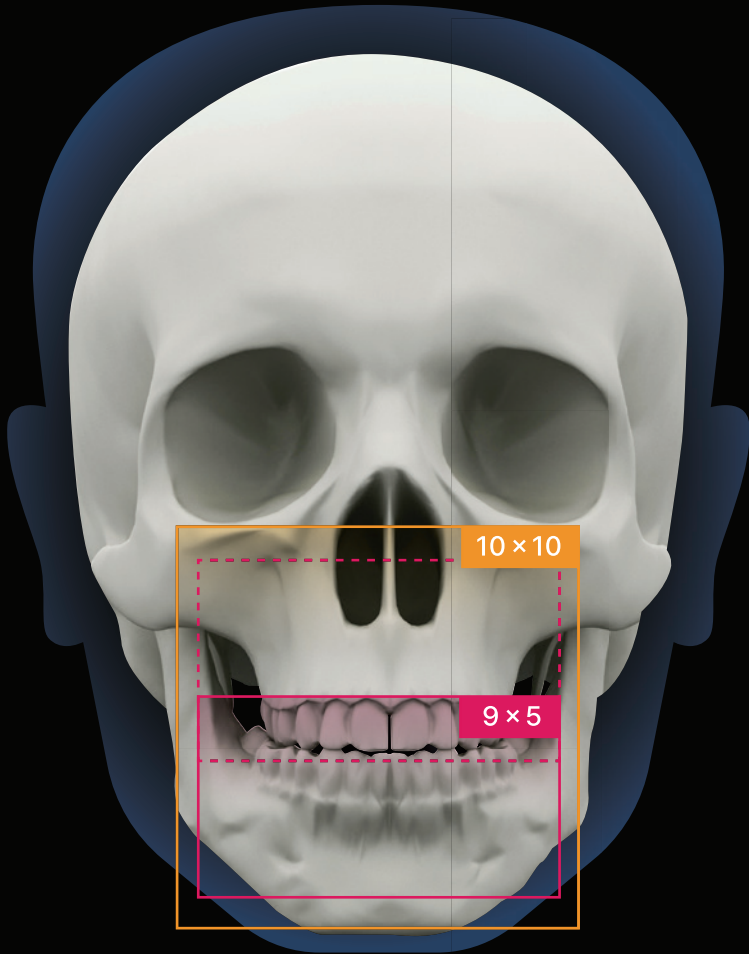
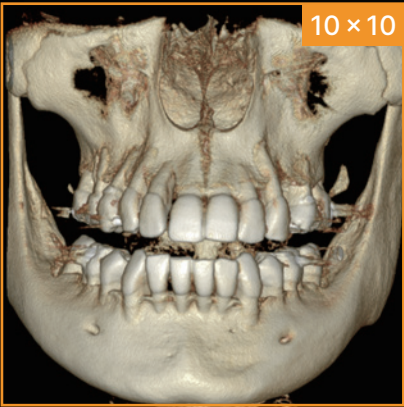


Predefined FOV options offer convenient usability

The RAYSCAN α 3D provides a user-friendly predefined scan volume feature, enabling quick and effortless selection of the scanning area with just one or two clicks.

Tackle More Dentistry

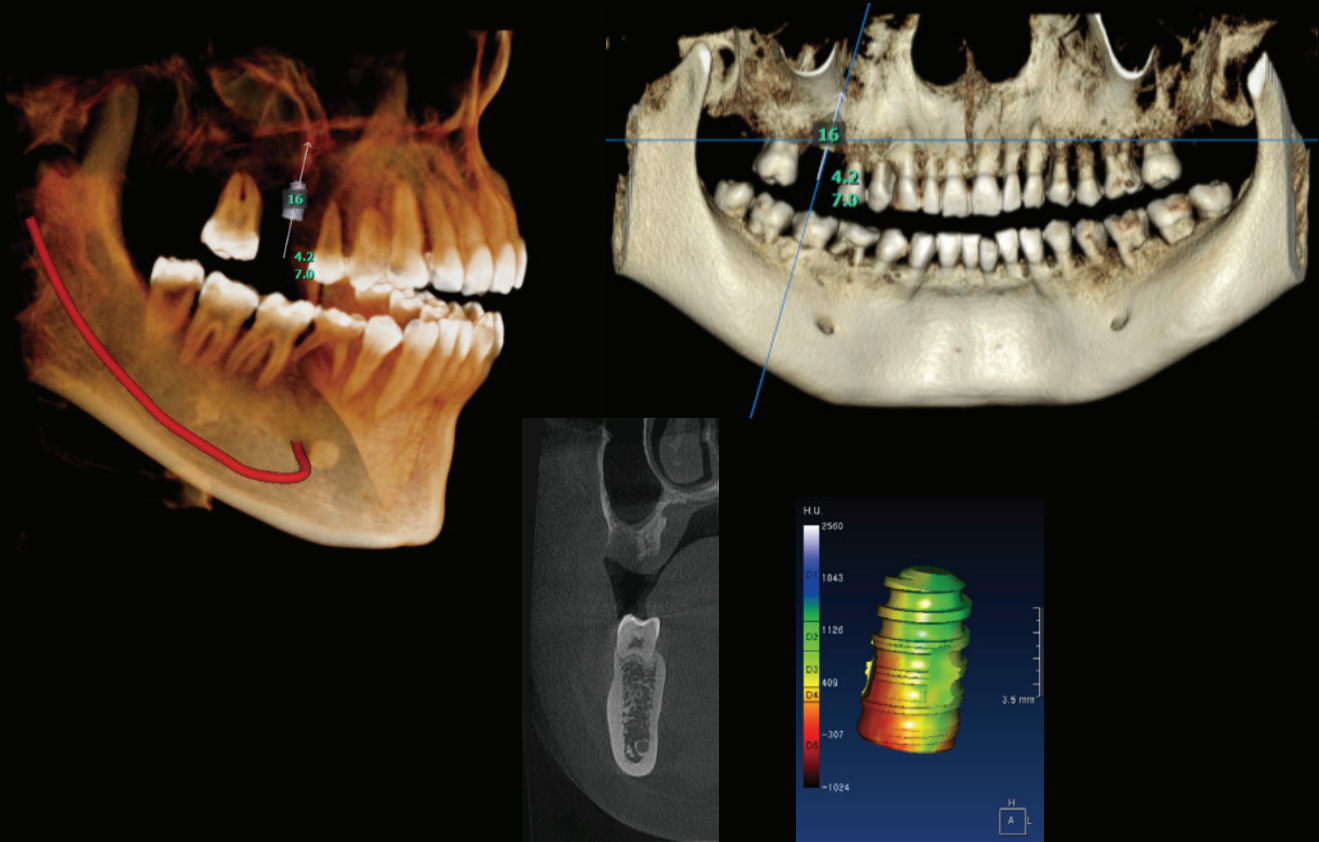
- Implantology
- All-on-X
- Orthodontics
- Complex impactions
- Single TMJ
- Sinus analysis
- Endodontics



High-Resolution Imaging for Accurate Diagnosis

Experience exceptional image clarity and customizable scan volumes with RAYSCAN α 3D. Tailor your scans to meet your specific clinical needs, ensuring you capture every intricate detail and unleash boundless possibilities.

Implant
FOV 10×10cm, 160μm



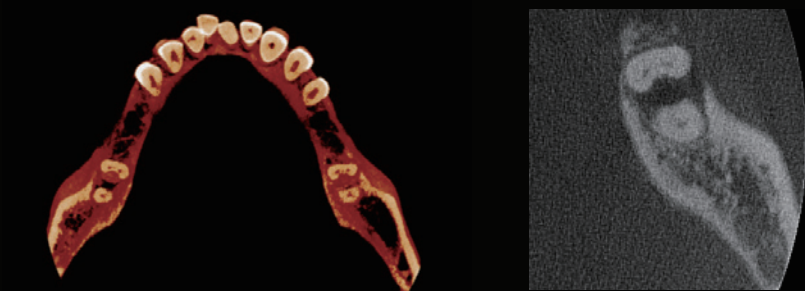
A Sufficient Resolution is Vital for an Accurate Diagnosis

FOV 9×5cm	FOV (cm)	Voxel size (mm)
100 μm	10×10	0.16
	9×5	0.1

Orthodontic
FOV 10×10cm, 160μm



Endo
FOV 9×5cm, 100μm



Rapid Reconstruction Time

RAYSCAN α 3D provides rapid and precise image reconstruction, enabling clinicians to examine CT scans in just 20 seconds. This leads to reduced wait times for patients and expedited treatment planning processes.

Significantly
Reduces Chair Time

20 sec

HD Scan
Reconstruction
Time

1 sec

Fast Scan
Reconstruction
Time

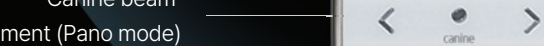


Wireless Remote for Maximum Convenience

Our remote control empowers patients and healthcare professionals with effortless operation, allowing them to focus on treatment outcomes.



Canine beam
adjustment (Pano mode)



Laser beam on/off



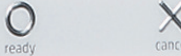
Columm
Up/Down



Pre motion (CT mode)



Ready/Cancel



RAYSCAN α



FACE-DRIVEN DENTISTRY

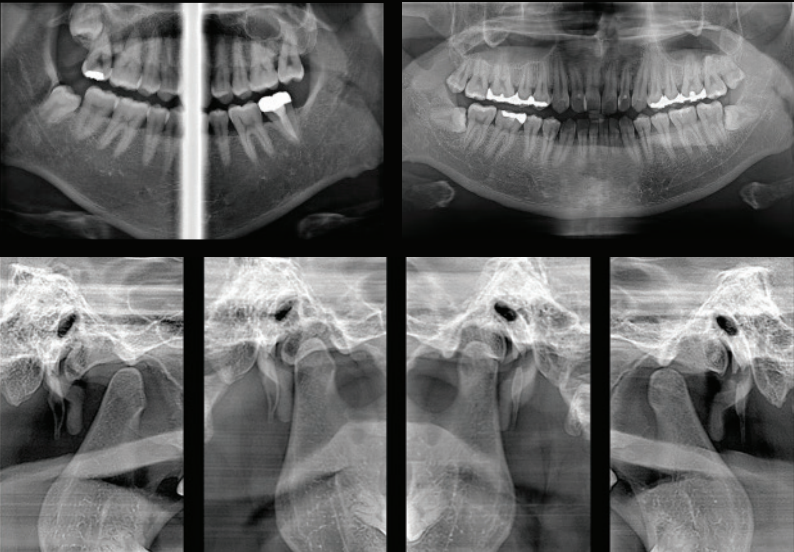
RAYSCAN α3D

Clear Panorama

- AMF (Adaptive Moving Focus) technology selects the optimal image layer to provide clear panoramic images, making it easy to identify the patient's periodontal condition and lesion location.

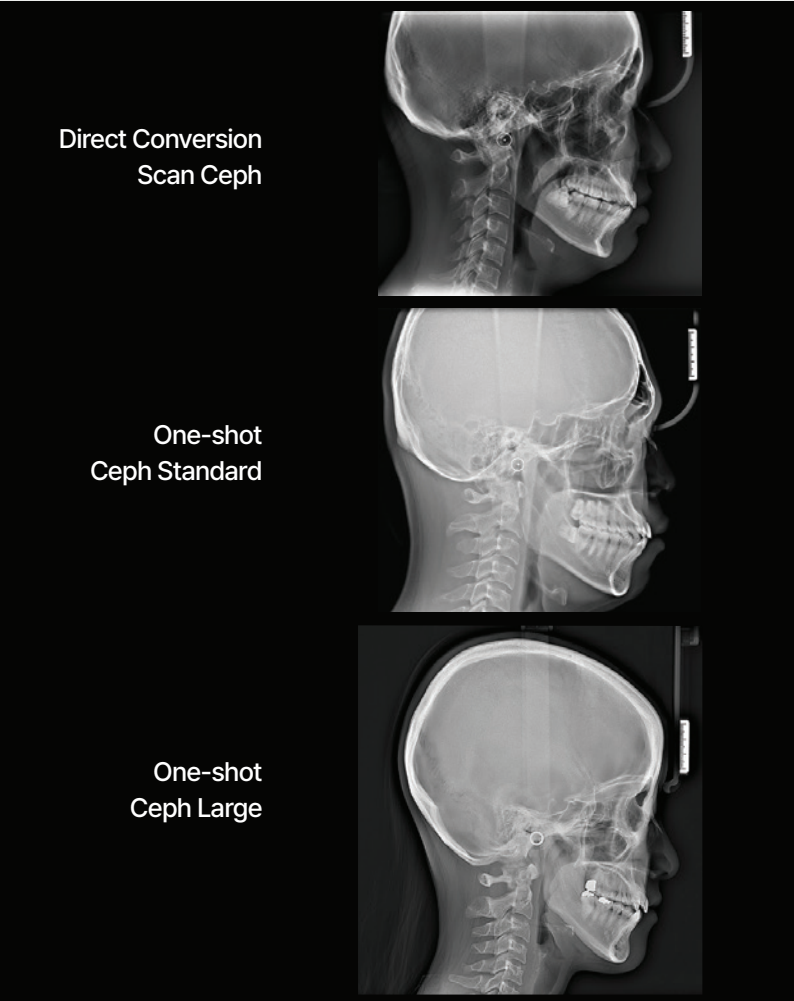


The state of the art technology for high-definition image quality



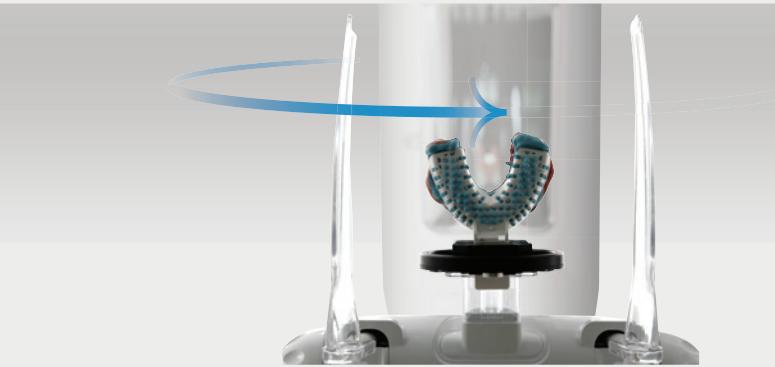
Optional Ceph Modality

- Option for either one-shot ceph sensors or direct conversion scan ceph attachment. One-shot ceph captures images in 0.8 seconds, reducing patient radiation exposure and minimizing distortion, while the direct conversion attachment ensures high-resolution scans.



Impression Scan

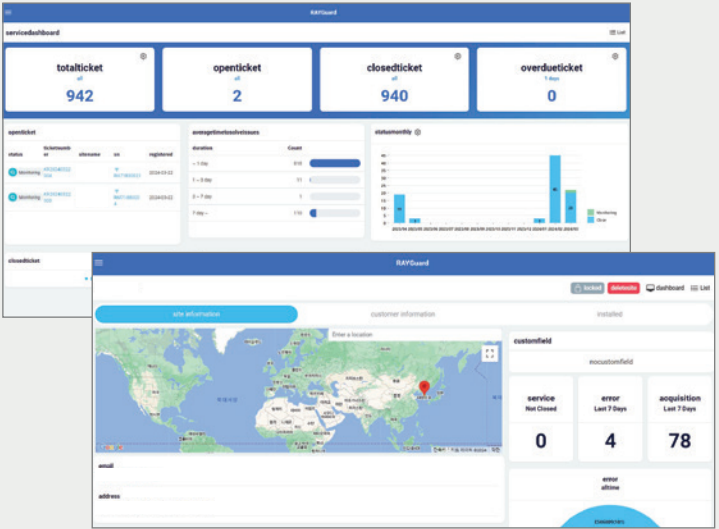
- RAYSCAN α 3D uses advanced 3D scanning technology to capture data from physical impressions and gypsum models, which is then utilized to generate the required STL file for CAD/CAM applications.



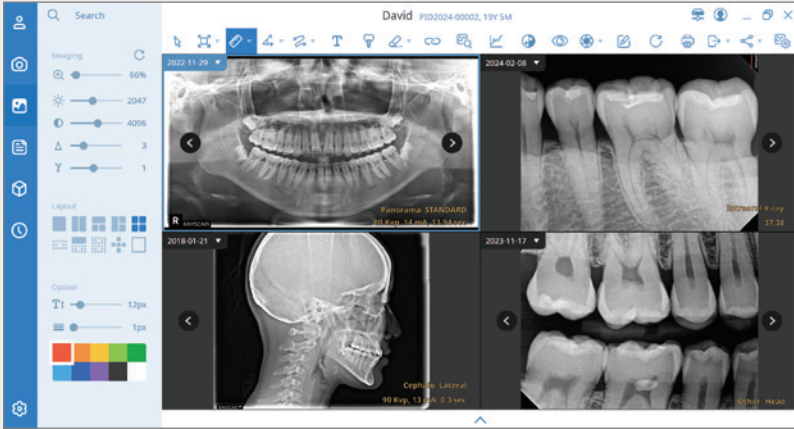
'RAYGuard' is an Excellent Support System

24/7 monitoring system

- We monitor all of our installed X-ray units using an advanced IOT system called RAYGuard.
- RAYGuard's 24/7 monitoring support significantly reduces the time required to address detected issues. By proactively equipping the support team, it minimizes the need for multiple visits to resolve the same issue, enabling more efficient resolution.



Software



2D Imaging Software SMARTDent

- Integrated dental image management
- Implant & canal draw simulation
- Simple and powerful search(id, name, date, modality)
- 16 bits full imaging system with DICOM 3.0
- Supports TWAIN-compliant input devices
- Convenient layout



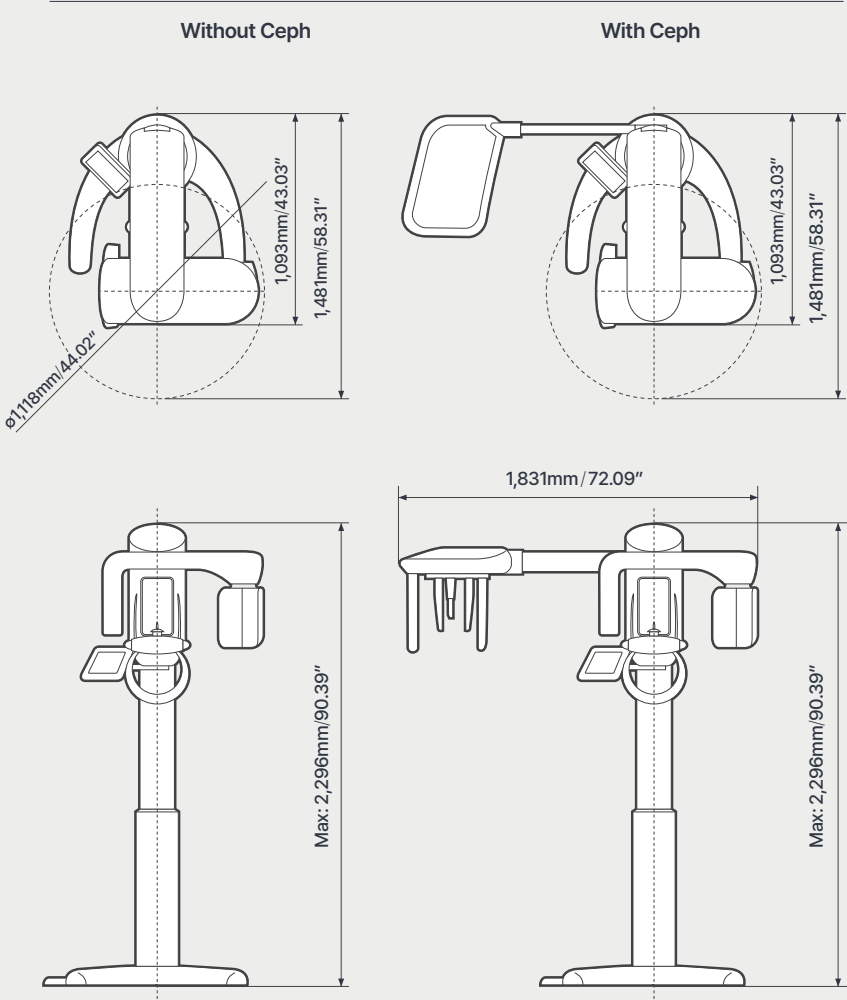
3D Imaging Software Ondemand 3D

- Accurate diagnosis & Analysis
- Powerful 3D rendering
- Panoramic image & Cross-Sectional image
- Nerve canal drawing & implant simulation
- Simple Airway & TMJ analysis
- DICOM print & CD/DVD burning

Specifications

Type	Cone Beam CT, Panoramic, Cephalometric, Object scan(CT Impression)
Patient Positioning	Standing(Wheelchair accessible)
Focal Spot	0.5mm
Tube Current	1~17mA
Tube Voltage	60~100kV
CBCT	
FOV Size	Max. 10×10(H)
Scan Time	4.9~14sec
Voxel Size	100~300µm
Fast Scan Mode	Yes
Object Scan Support	Yes(CT Impression & Model scan)
Panoramic	
Scan Time	Max.14sec
Cephalometric (Option)	
Type & Scan Time	SC(Scan Ceph) Min. 4.0sec OCS(One-Shot Ceph Standard) Max. 0.8sec OCL(One-Shot Ceph Large) Max. 0.5sec

Dimensions



IDEA Bronze



REDDOT Winner



Ray

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