Ray

THE GATEWAY TO
3D IMAGING
Empower Your Practice

INTERNATIONAL DESIGN EXCELLENCE AWARDS '12
BRONZE

reddot design award
winner 2012

RAYSCAN α 3D

HD CMOS SENSOR

Ray

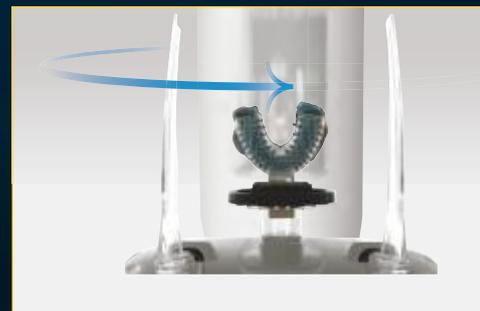## DIGITAL IMAGING SOLUTION WITH HD CMOS SENSOR

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

CBCT

Panoramic

Model Scan

Optimal FOV size for 3D Diagnosis

FOV $10{\times}10$max.

Predefined FOV

Implantology, Endodontics, Orthodontics and single TMJ

High Resolution

$100\mu m$ $160\mu m$

FOV 9x5   FOV 10x10

Accurate results instill confidence in your diagnosis
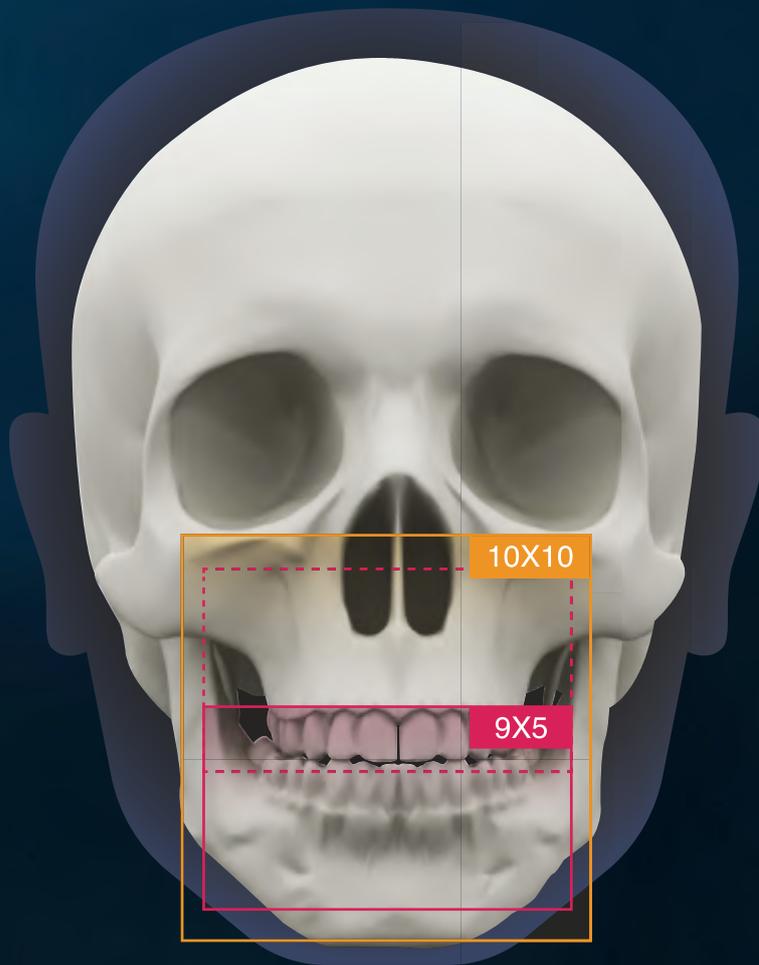
Rapid Reconstruction

20sec

HD Scan

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

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Predefined FOV options offer convenient usability

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

9X5

9X5

10X10

10X10

9X5

HD-Resolution is Vital for an Accurate Diagnosis

FOV 9×5cm

100μm

FOV (cm)	Voxel Size (mm)
10x10	0.16
9x5	0.1

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.
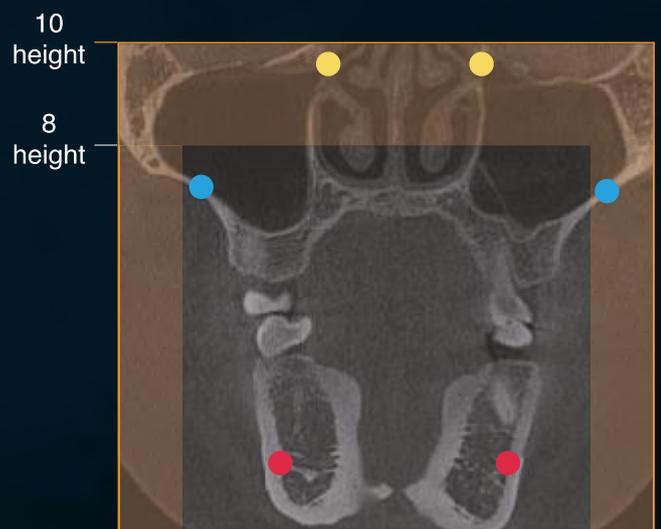

Full dentition ∩
3rd molar ⬤
RAYSCAN α 3D area ⬤

For Implantology & Orthodontics

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 assessment of deeply impacted teeth and supernumerary teeth in a single scan.
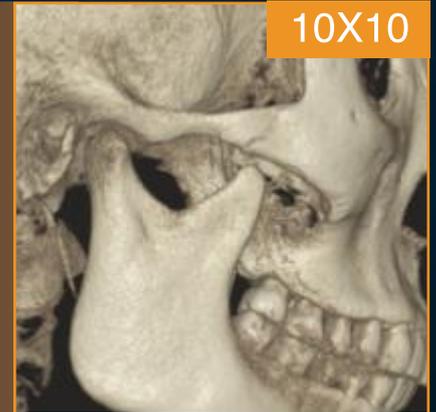
- ⚑ Implant surgery plan and surgical guide
- ⚑ 3rd molar extraction
- ⚑ Orthodontic treatment plan
- ⚑ Complex impactions
- ⚑ Single TMJ analysis

10 height
8 height

Competition ⬜
RAYSCAN α 3D scan area ⬛

Ostium ⬤
Sinus artery ⬤
Mandibular nerve canal ⬤

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Tackle More Dentistry
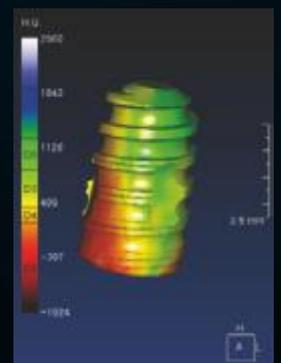
- Implantology
- Endodontics
- Orthodontics
- Complex impactions

- TMJ analysis
- Sinus analysis
- Airway analysis
- All-on-X

10X10

10X10

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

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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
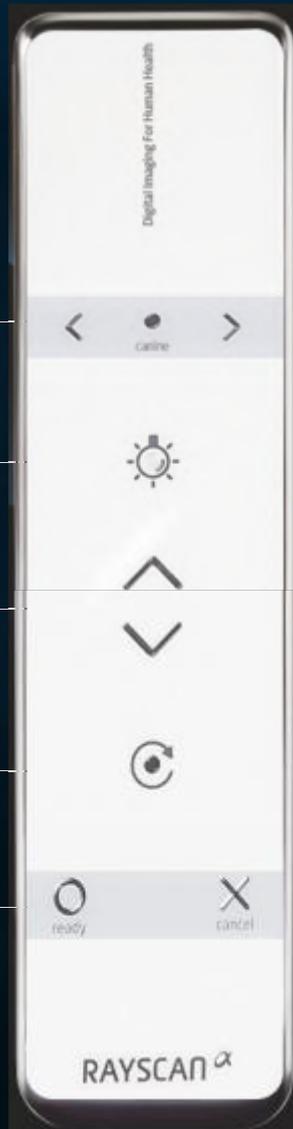Time

1 sec
Fast Scan
Reconstruction
Time

Canine beam
adjustment
(Pano mode)

Laser beam
on/off

Columm
Up/Down

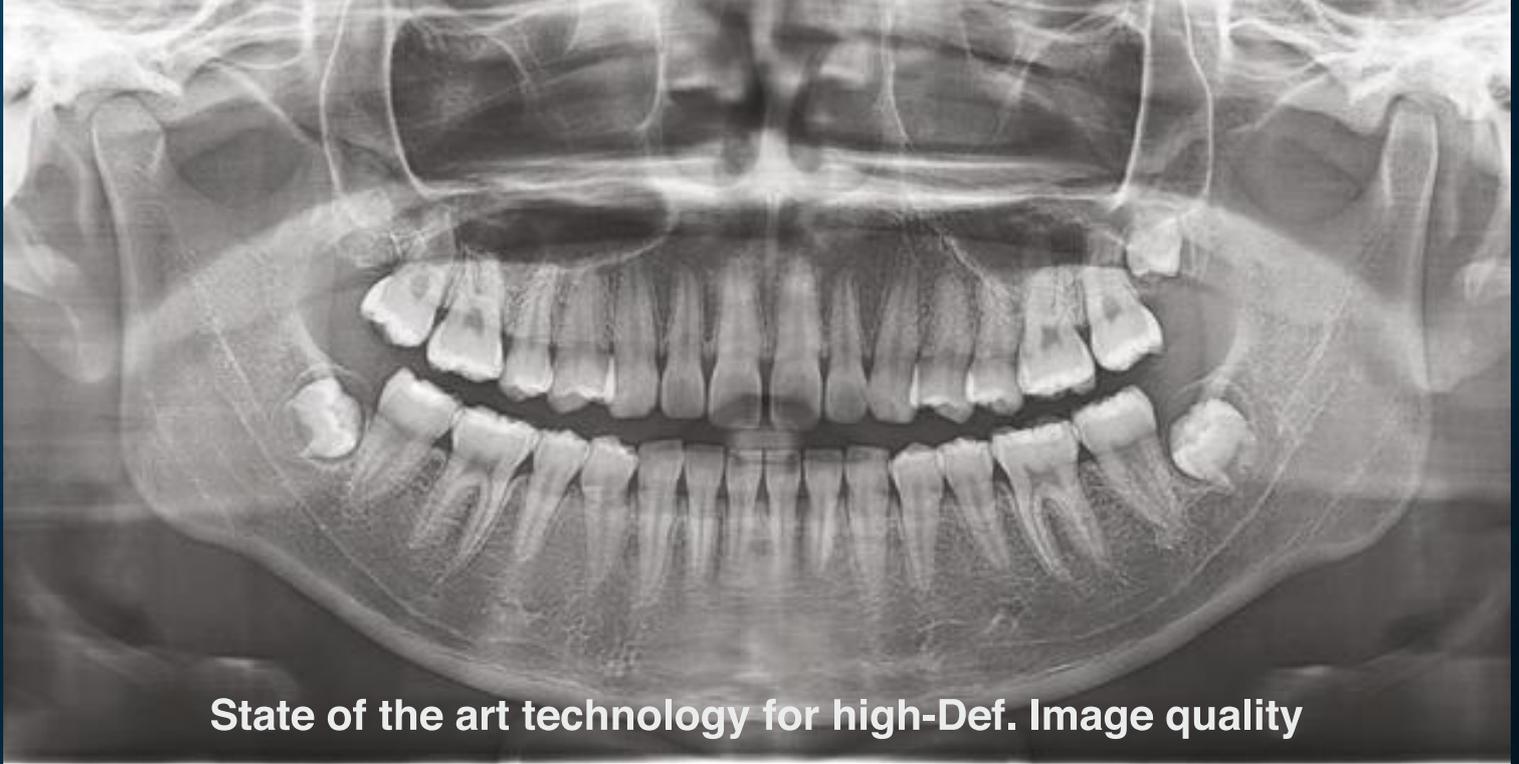Pre motion
(CT mode)

Ready/Cancel

RAYSCAN α

Wireless Remote for Maximum Convenience

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

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Clear Panorama

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.

State of the art technology for high-Def. Image quality

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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.
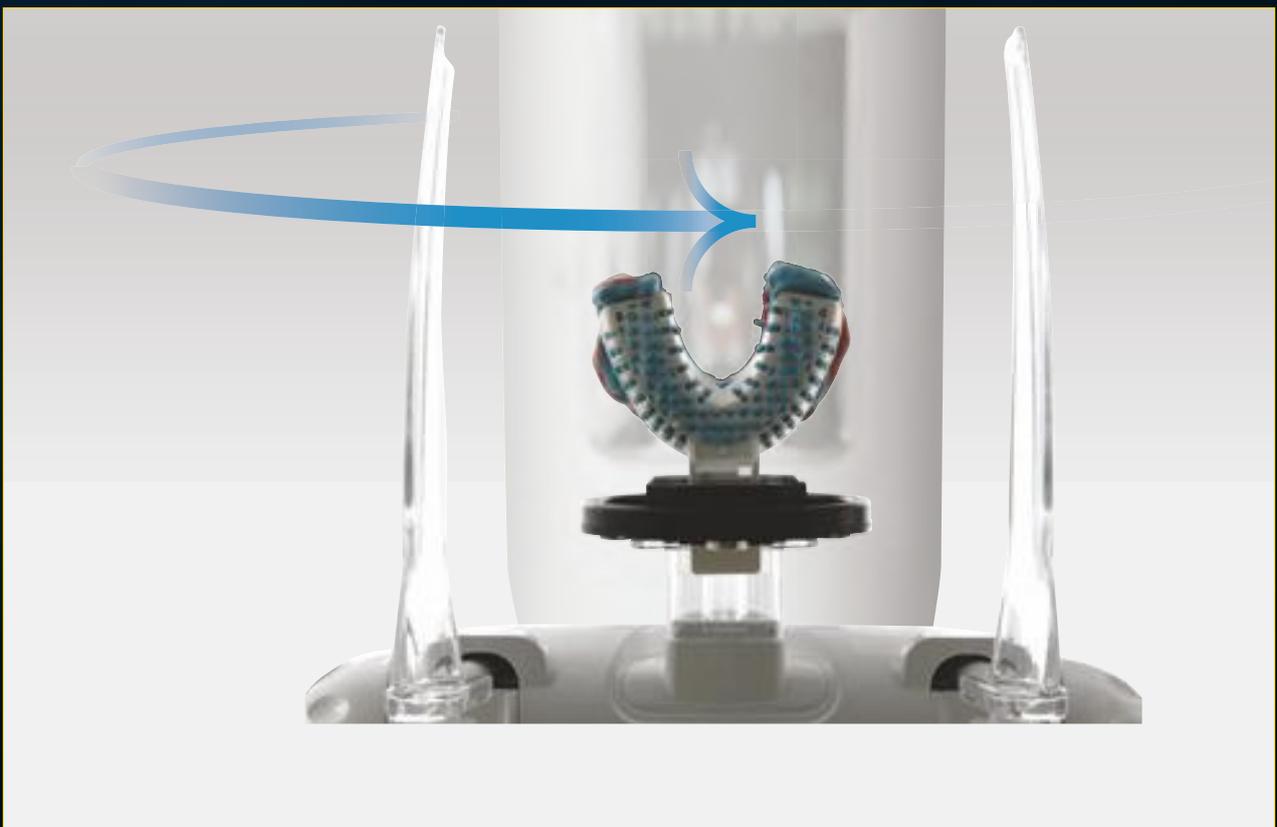

Direct Conversion
Scan Ceph

One-shot
Ceph Standard
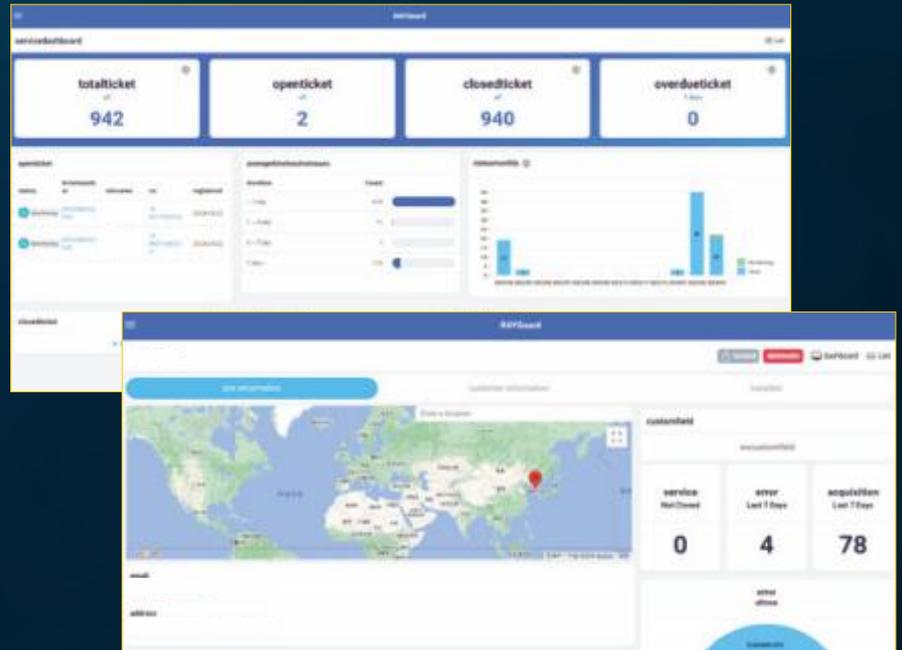
One-shot
Ceph Large

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
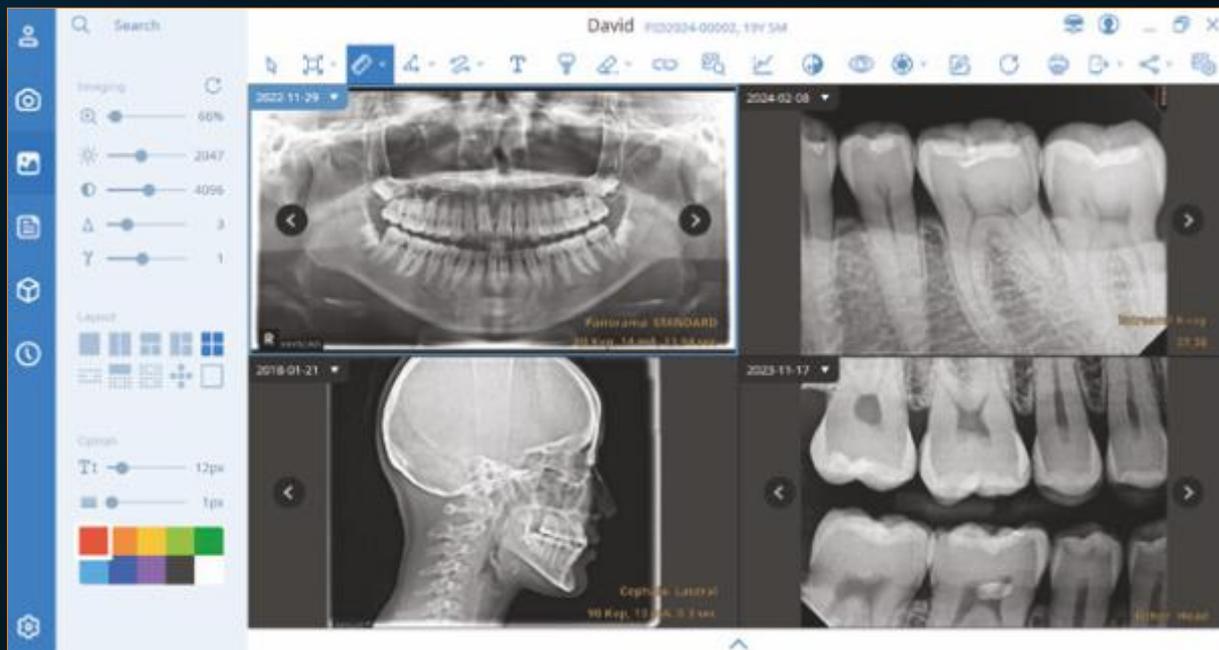
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'RAYGuard' Support System

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

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3D Imaging Software

ONDEMAND3D

The beginning of your complete 3D
Dental imaging solution OnDemand3D
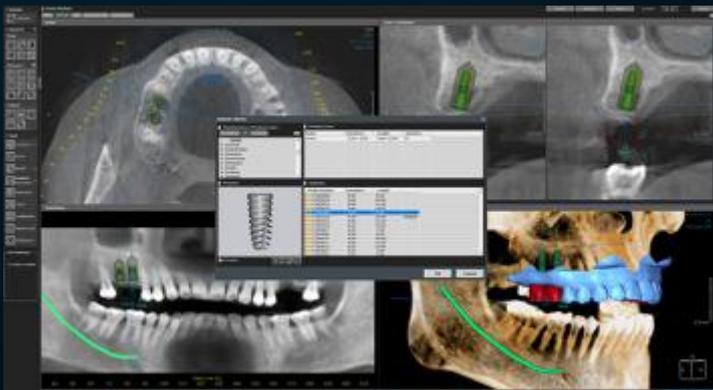
Convenient database management.

You can use OnDemand3D Application user's database, OnDemand3D server, and PACS server efficiently by uploading and downloading data in DICOM format

Accurate diagnosis and analysis.

It provides various features such as a powerful 3D rendering that can effectively diagnose and analyze patients, Pre and Post treatment surgery comparison, orthodontic 3D Cephalometric diagnosis, and implant planning.

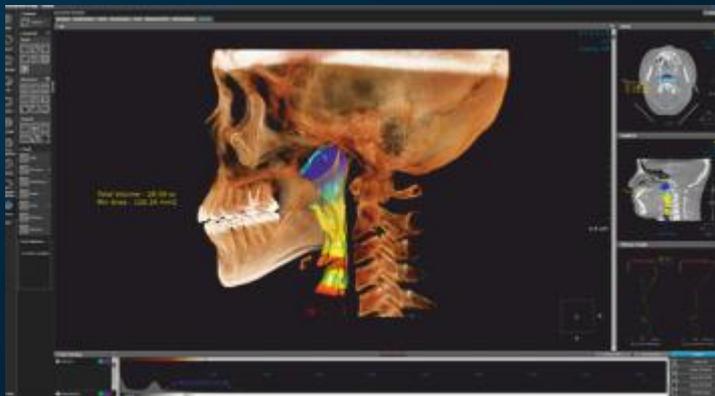### Through digital planning, Virtual simulation.

OnDemand3D's digital planning provides a variety of implant library manufactures, enabling realistic simulations, and using accurate features to avoid complications.

Planning Implant Placement

Implant surgery is one of the most complex and sophisticated areas. Through OnDemand3D, you can analyze the patient's oral cavity in detail, place the implant in the right location, and perform a virtual operation.

Orthodontics-Auto Ceph Tracing

More than half of the world's population have disproportionate teeth and maxilla. First, the 3D Ceph module allows you to plan and analyze a surgery or braces placement method. Because improvement in aesthetics is important as well as dental treatment, it helps to increase the trust between the dentist and the patient by showing and explaining the treatment process.
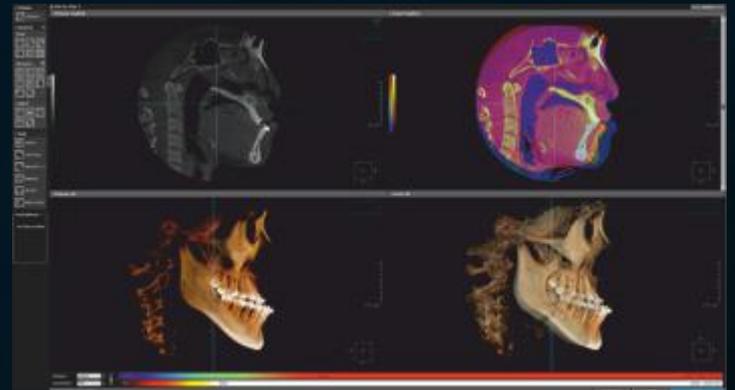

Airway Measurement

With just a few clicks, anyone in the dental field can easily and accurately measure airway volume. We are working hard on technology development so that we can measure more easily and accurately.

Comparative Analysis

It is very important to check the progress and difference of surgery. The OnDemand3D Fusion module visually shows the patient's condition before and after surgery by superimposing two sets of dicom data, and sophisticated measurements can be performed through multiple options.

Analysis Report

For imaging centers, dental clinics, dental labs, and educational institutions, there are many advantages to analyze and shared patients' CT results. You can highlight the patient's diagnosis and treatment, and create a customized report.
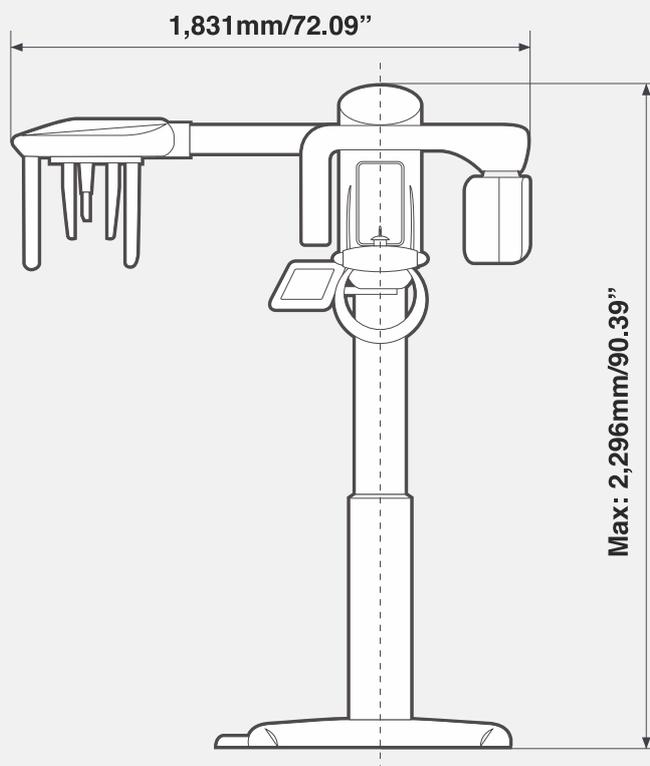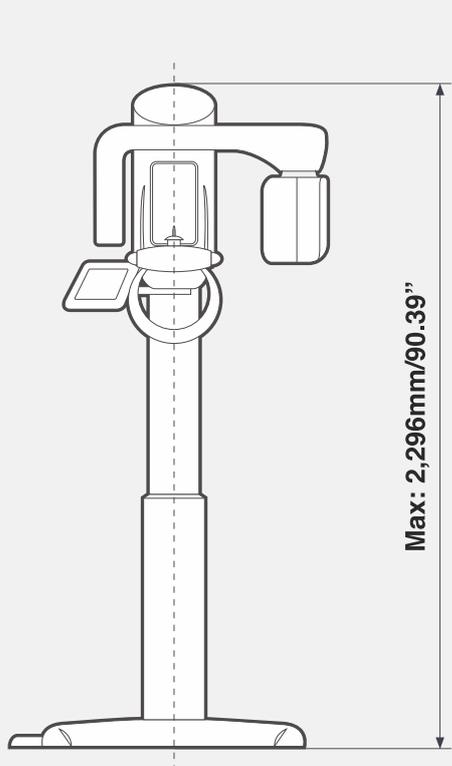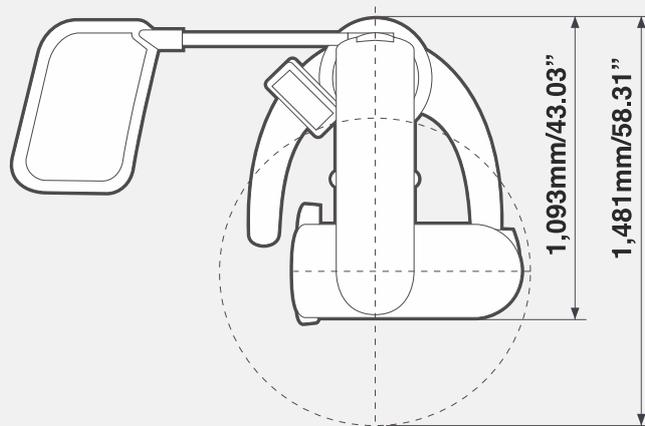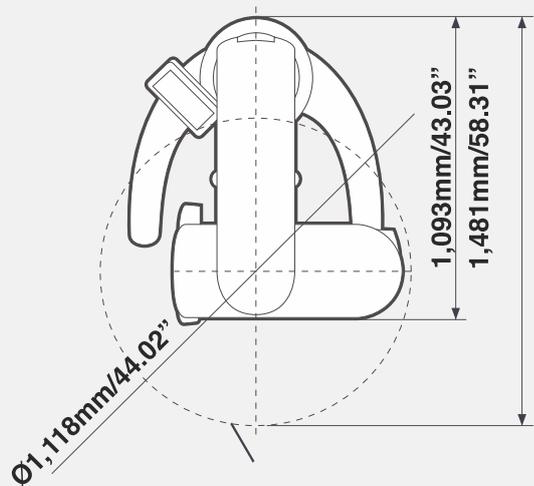
Specifications

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

Without Ceph

Ø1,118mm/44.02"
1,093mm/43.03"
1,481mm/58.31"

Max: 2,296mm/90.39"

With Ceph

1,093mm/43.03"
1,481mm/58.31"

1,831mm/72.09"
Max: 2,296mm/90.39"

31 Years of LEADERSHIP

WHERE **TRUST** COMES **FIRST**

Warranty Ke Saath Bhi
Warranty Ke Baad Bhi

For any Sales & Support

📞 **9821184441, 8448398852**

✉ sales@unicorndenmart.com

Customer Care

Register Your Complaint With **A Missed Call 7065-558-558**

☎ 011-45551250/51/55   📞 95994-48518, 97170-12081

✉ care@unicorndenmart.com | care1@unicorndenmart.com

Connect With

Unicorn DenMart

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*Accessories shown may not be a part of standard equipment. Specifications are subject to change without notice.

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