

DISCOVER THE UNSEEN  
TRUE SIZE 18X16 FOV

Ray



RAYPremiere

# Solutions Crafted by Seasoned Experts, Empowering Professionals

FACE-DRIVEN SOLUTIONS tailored to today's practice:  
PRECISION, VERSATILITY, AND FAST RESULTS



# FACE-DRIVEN SOLUTION

Unlock the Potential of FACE-DRIVEN DENTISTRY: Achieve personalized and aesthetically pleasing treatment outcomes by capturing the full spectrum of facial and dental anatomy. RAYPreMiere's advanced technology ensures comprehensive imaging of dental and facial bones, all while minimizing radiation exposure. With our 3D face and intraoral scanners, patient-specific treatment planning becomes an indispensable and transformative tool, poised to enhance and inspire lives.

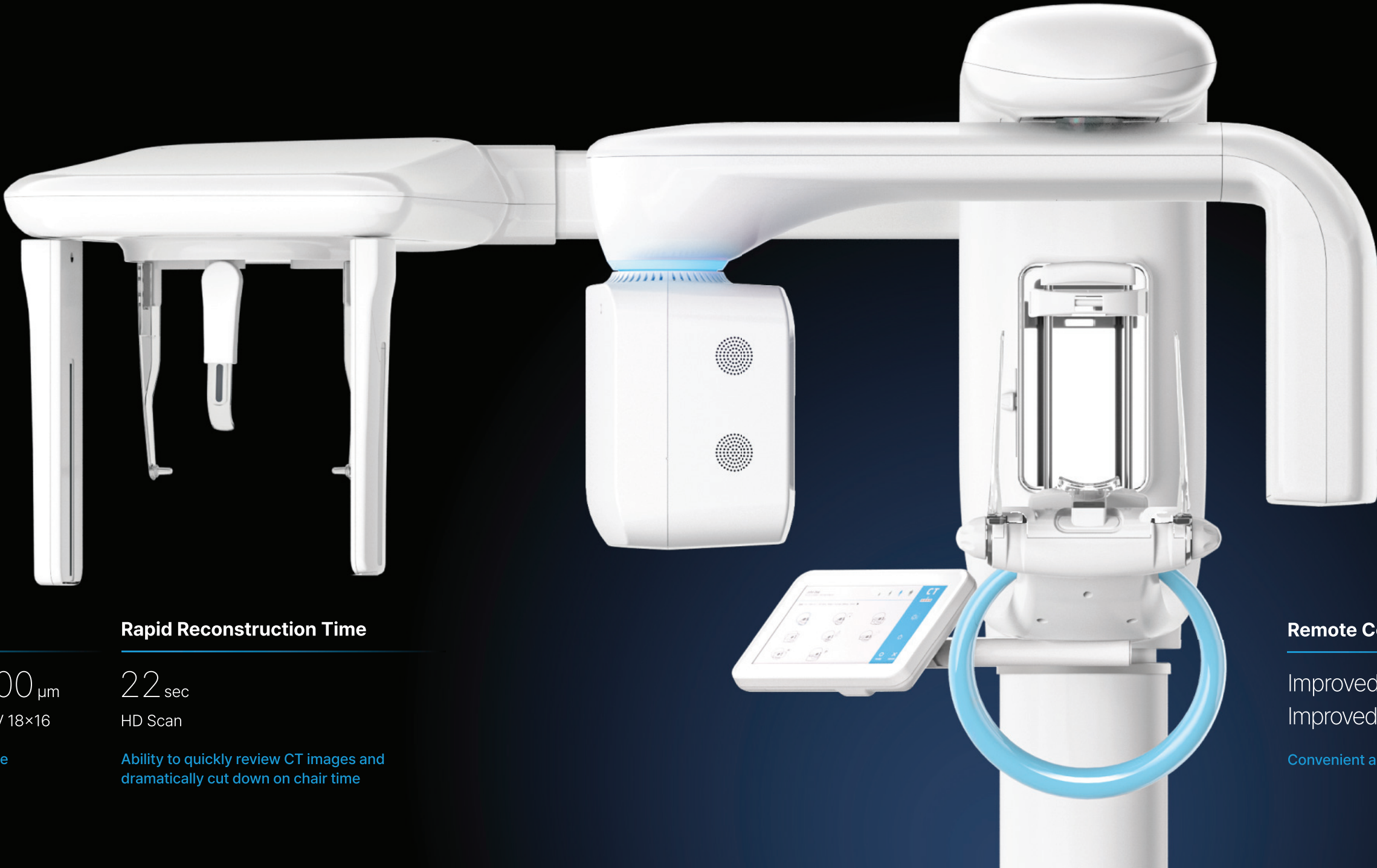
3D Face Scanner • CBCT • Intraoral Scanner





# RAYPreMiere

With just one scan, we deliver swift and precise data processing, guaranteeing flawless, distortion-free images. This empowers you to access comprehensive clinical perspectives, enabling confident diagnoses and comprehensive treatment plans, seamlessly guiding you from start to finish.



## Large & Free FOV

FOV 18×16

Free FOV Adjustments

Orthodontics and Orthognathic surgery,  
Sinus & airway analysis, Implantology,  
Dual TMJ analysis, Endodontics

## High Resolution

70<sub>μm</sub>

160<sub>μm</sub>

300<sub>μm</sub>

FOV 4×5

FOV 10×10

FOV 18×16

Accurate results instill confidence  
in your diagnosis

## Rapid Reconstruction Time

22<sub>sec</sub>

HD Scan

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

## Remote Control

Improved Patient Positioning &  
Improved Operator Ergonomics

Convenient and easy scanning



# One Scan, All the Detail

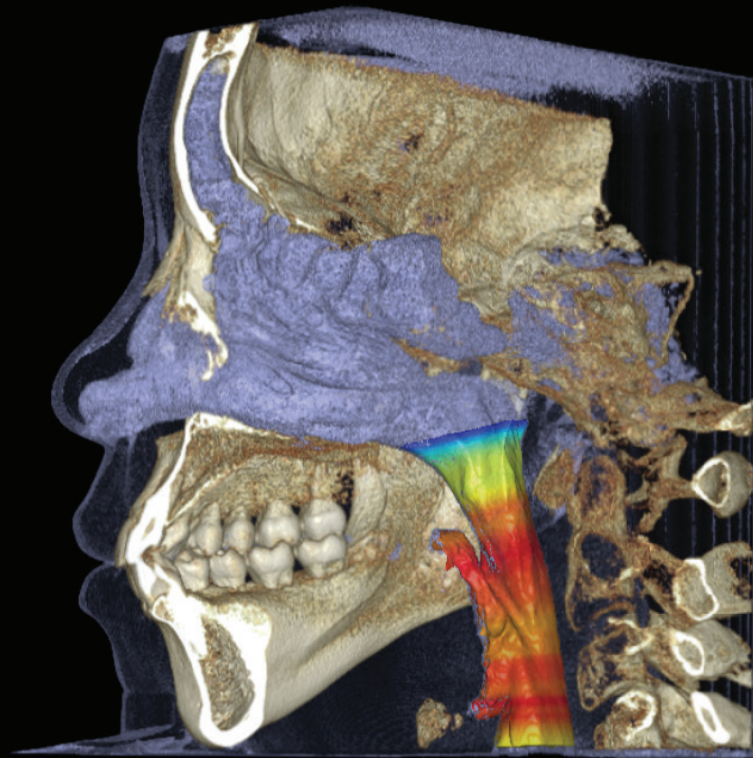
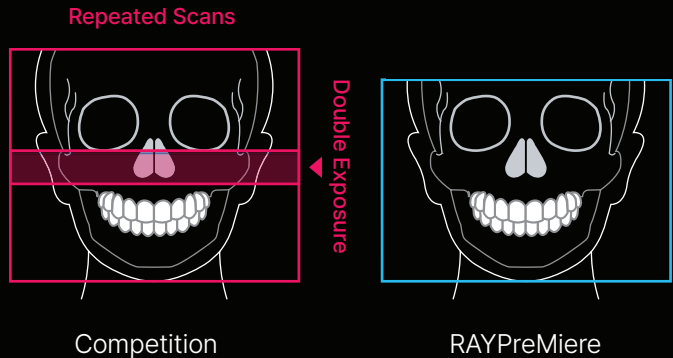
RAYPreMiere can capture a comprehensive region of anatomy with ease and precision. Its remarkable capability to capture both Nasion and Glabella, spanning from chin to forehead, all in a single scan height of 16cm is truly impressive.

## For Orthodontics & OMS

- Orthodontic treatment plan
- Analysis of facial symmetry
- Assessment of growth
- Orthognathic surgery simulation
- Airway and TMJ analysis

## True Size Sensor

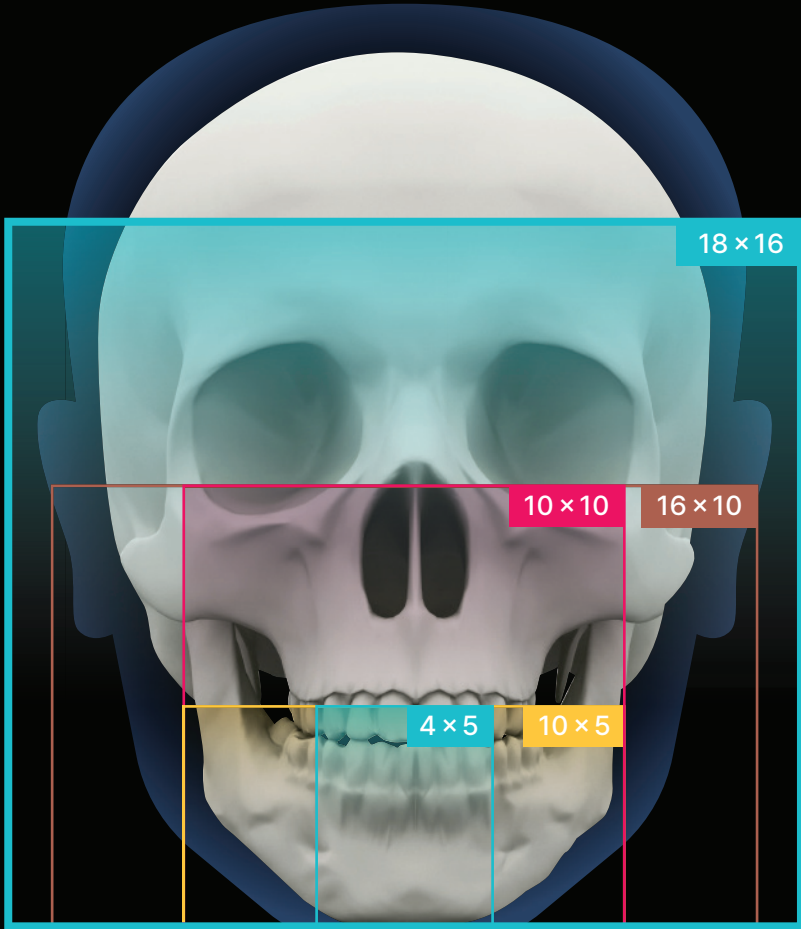
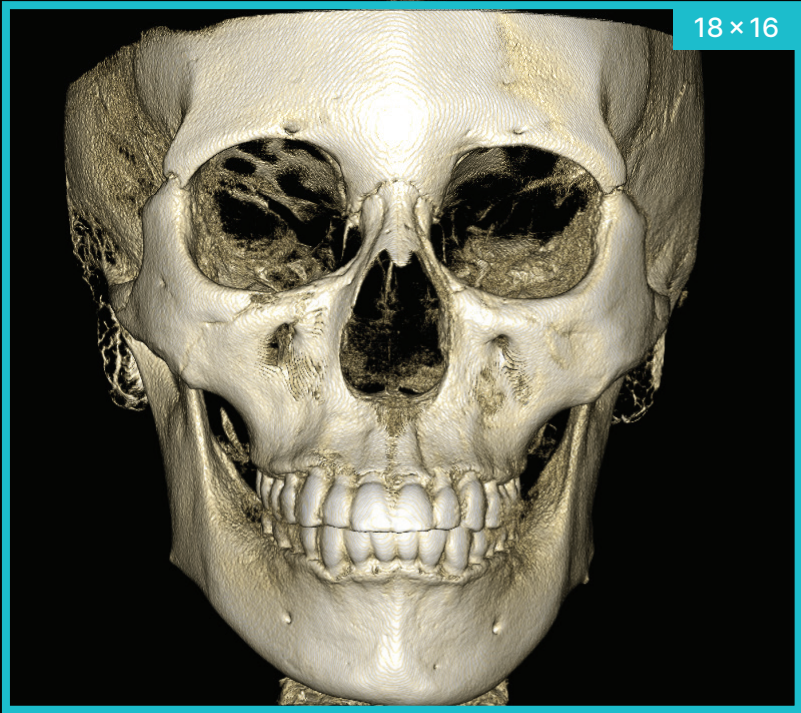
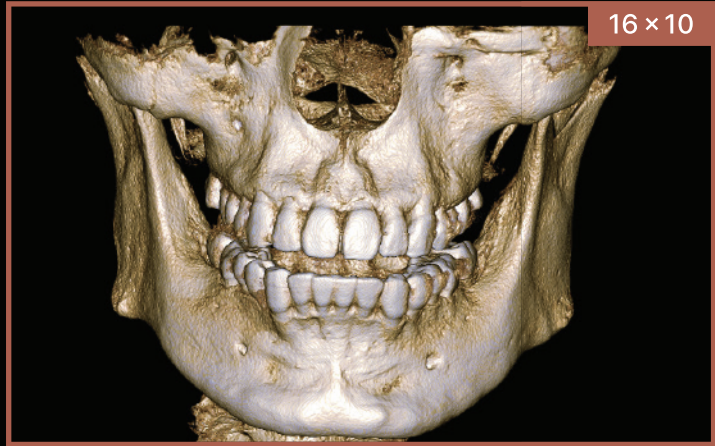
Traditionally, the practice of stitching images was commonplace to generate a one large 3D image. Regrettably, this approach led to image distortions and demanded extensive data processing and image reconstruction time, rendering outcomes less clinically reliable. Enter RAY PreMiere's True Size Sensor imaging technology, where patients can now acquire precise results effortlessly, without the need for image stitching. This technique not only yields expansive images but also prioritizes minimizing radiation exposure for patient safety.





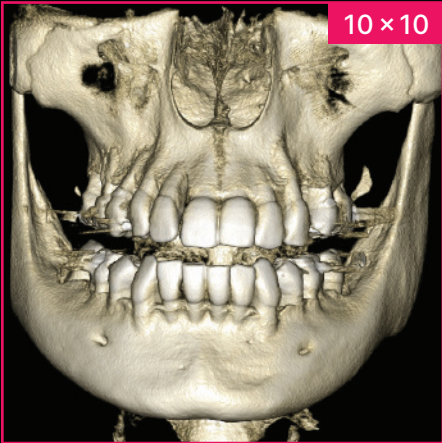
# Free-FOV Treatment Provides Diverse Treatment Possibilities

Through RAYPreMiere, we can prioritize the well-being of your patients by offering customizable scan volumes and high-resolution images. Our approach involves tailoring the scan volume to each patient, ensuring the acquisition of clear and diagnostic images. This precision allows for accurate diagnoses and targeted treatment planning.



## Tackle More Dentistry

- Orthodontics • All-on-X implant planning • Orthognathic surgery
- Facial reconstruction • Traumas • Sinus and airway analyses
- Implantology • Endodontics • Dual TMJ • Complex impactions





# High-Resolution Imaging for Accurate Diagnosis

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

## Orthodontic

FOV 18×16cm, 300μm



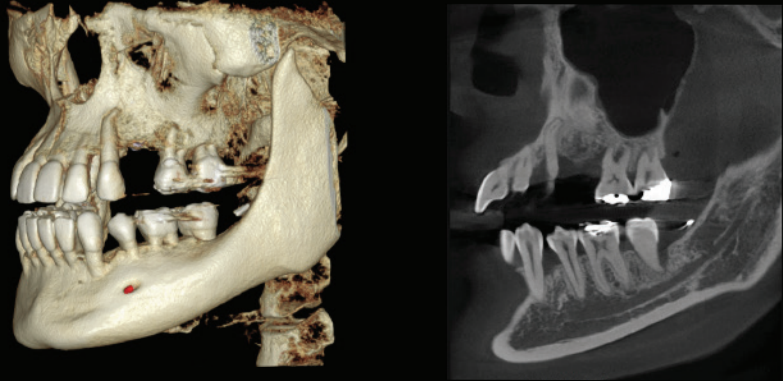
## OMS

FOV 18×16cm, 300μm



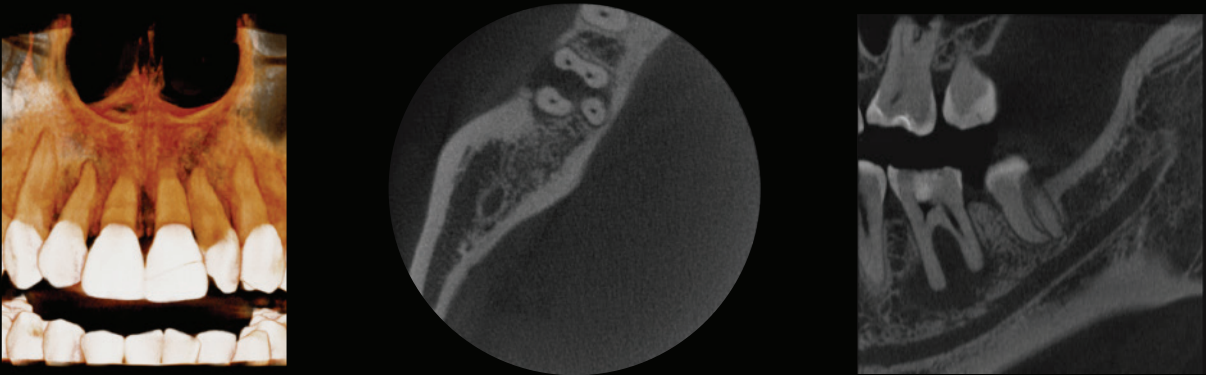
## Implant

FOV 10×10cm, 160μm



## Endo

FOV 4×5cm, 70μm



Diagnose all areas

FOV 4×5cm

FOV (cm)

Voxel size (mm)

70 μm

18×16

0.3

10×10

0.16

4×5

0.07



# Rapid Reconstruction Time

RAYPreMiere enables clinicians to deliver exceptional patient care through lightning-fast image reconstruction. Our capability to review and consult CT scans in a mere 22 seconds ensures shorter waiting times for patients and prompt, efficient treatment planning.

Significantly  
Reduces Chair Time

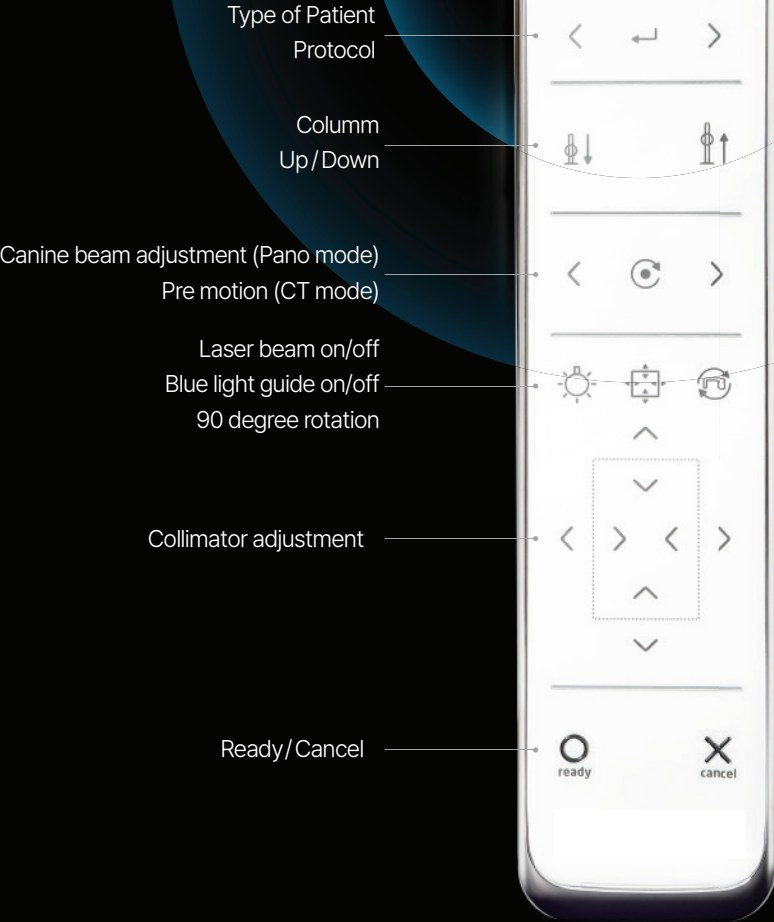
22 sec  
HD Scan  
Reconstruction  
Time

2 sec  
Fast Scan  
Reconstruction  
Time



# Wireless Remote for Maximum Convenience

For patients and healthcare professionals alike, our remote control empowers them with effortless operation, allowing them to focus on what truly matters - the treatment outcome.



# FACE-DRIVEN DENTISTRY

RAYPreMiere



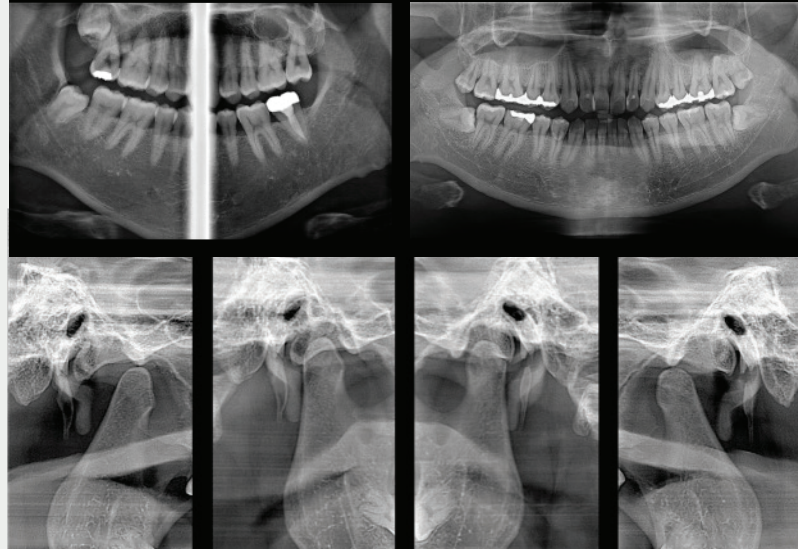


## Clear Panorama

- 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.

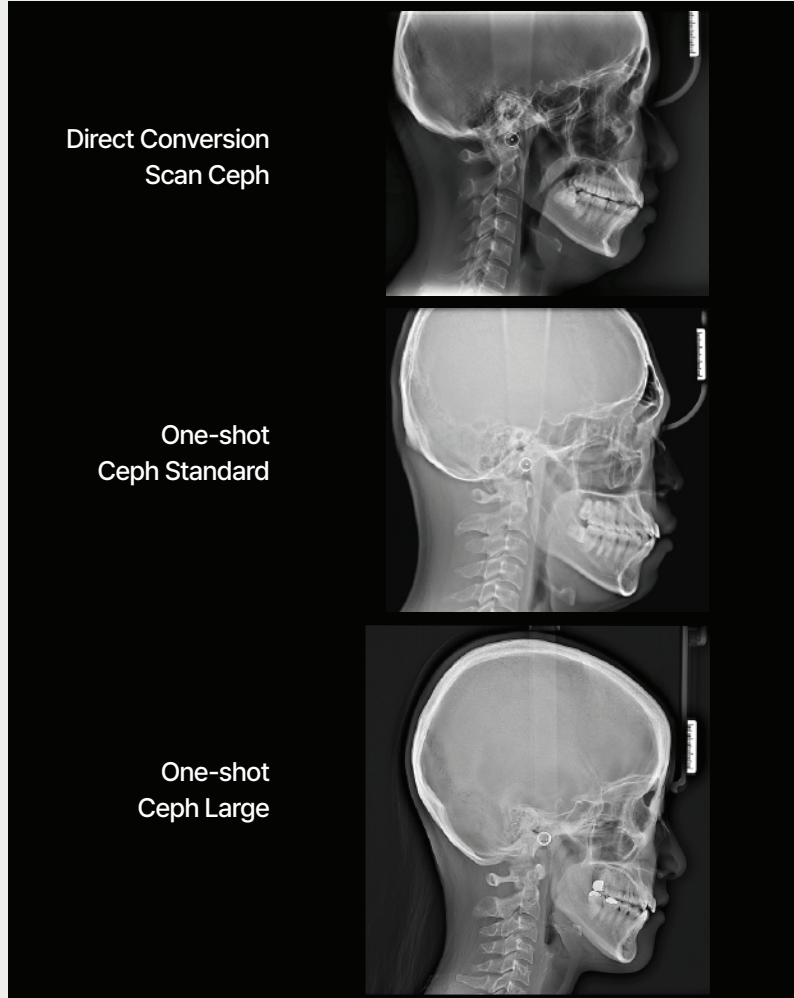


The state of the art technology for high-definition image quality



## Optional Ceph Modality

- Optional direct conversion scan ceph or one-shot ceph sensors. The one-shot ceph captures images in just 0.8 seconds, minimizing distortion and reducing patient radiation exposure. Where as direct conversion scan ceph attachment ensures hi-resolution ceph scans.



## Impression Scan

- RAYPreMiere employs cutting-edge 3D scanning technology for its impression scanning feature, which captures data by imaging physical impressions and gypsum models. This gathered data can then be utilized to generate the STL file required for CAD/CAM applications.



## Visible X-ray Guide

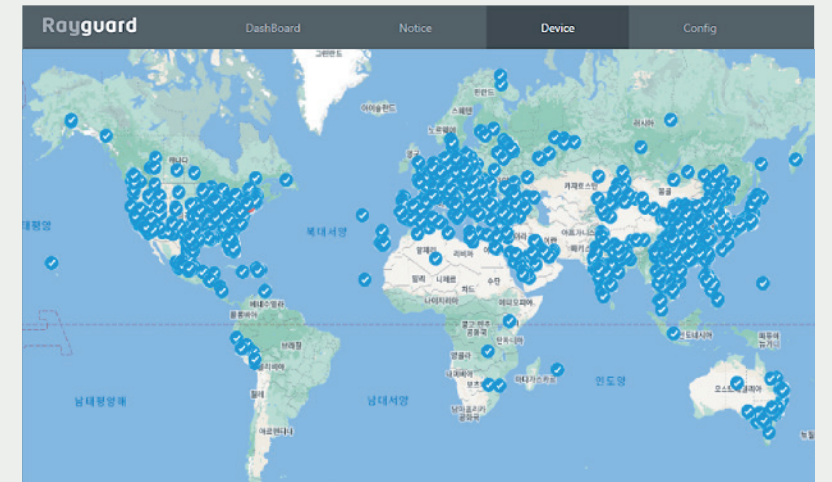
- The world's foremost visible X-ray guide prominently indicates the location of the scan area. Users can effortlessly capture the region of interest using a patient-safe visible blue-light guide method, ensuring convenience and safety.



## 'RAYGuard' is an Excellent Support System

### 24/7 monitoring system

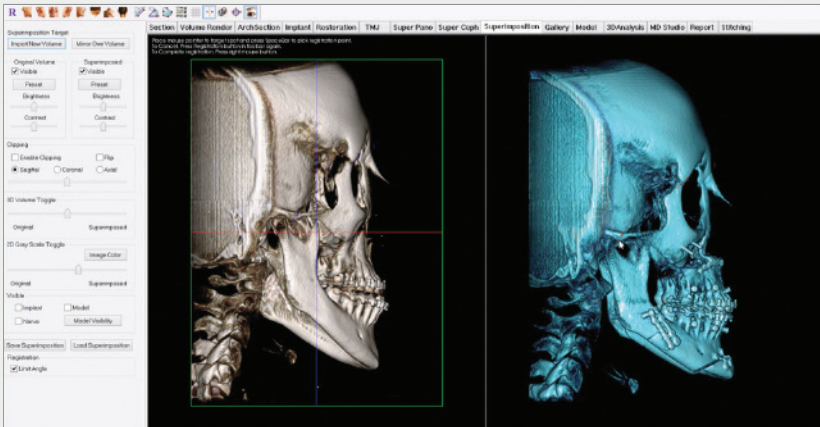
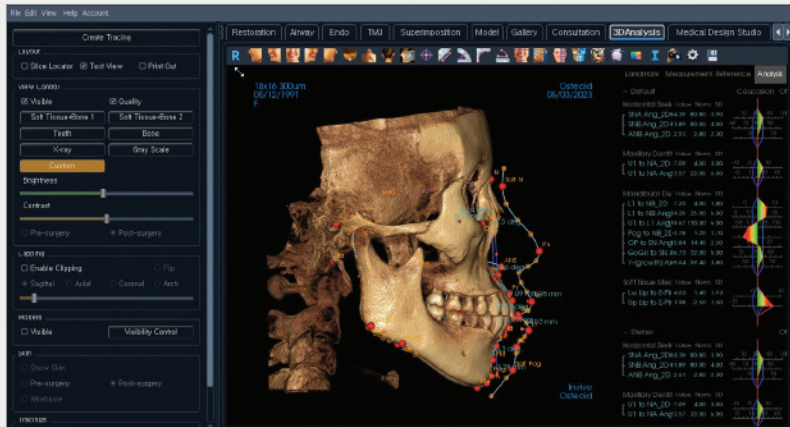
- We monitor all of our installed X-ray units using an advanced IOT system called RAYGuard.
- RAYGuard's 24/7 monitoring support significantly reduces the time required to address detected issues. By proactively equipping the support team, it minimizes the need for multiple visits to resolve the same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





# Invivo 7.1

It's the ideal companion to RAYFace and RAYPreMiére in transforming the art of dentistry. Designed for optimal compatibility, Invivo 7.1 harnesses the high-definition data from RAYFace and the expansive 18×16 FOV from RAYPreMiére to deliver a seamless and intuitive diagnostic experience.

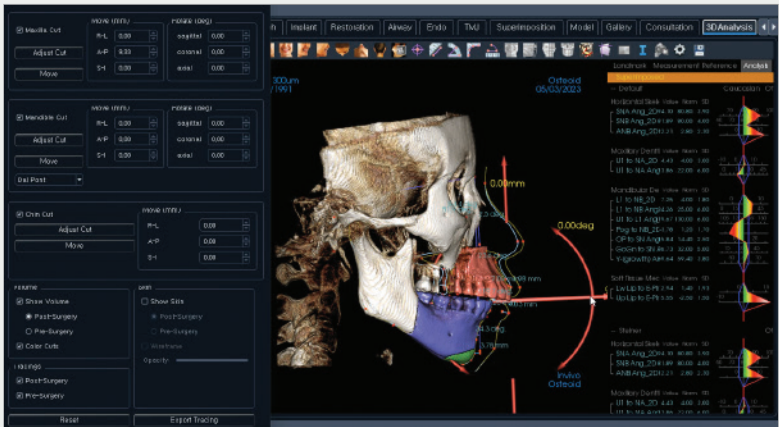


## 3D Auto-trace

- 3D Auto-tracing with a single click (Stiner is the only method available among several)
- Human errors in 2D ceph calibration analysis can be prevented
- Suitable for first-time orthodontic consultations

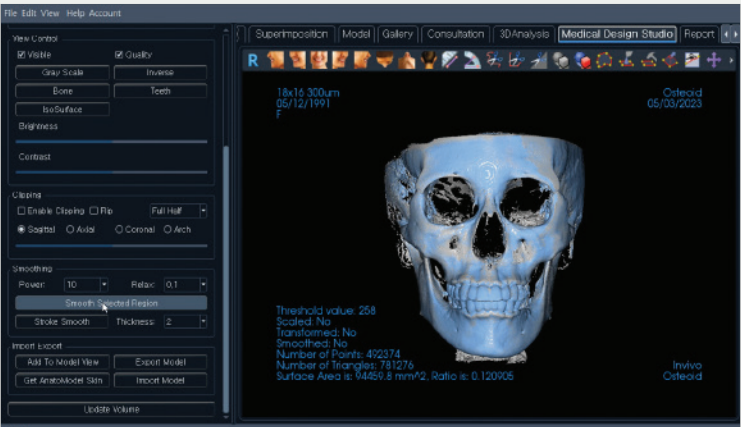
## Superimposition

- Orthognathic surgery, 3D comparative analysis before and after
- Integrating visual analysis into the analysis process



## 3D Surgery-OMS module

- The ability to evaluate surgical procedures needed to achieve facial harmony is improved by surgical incisions and adjustments
- Visualization of soft tissue deformation after surgical incision



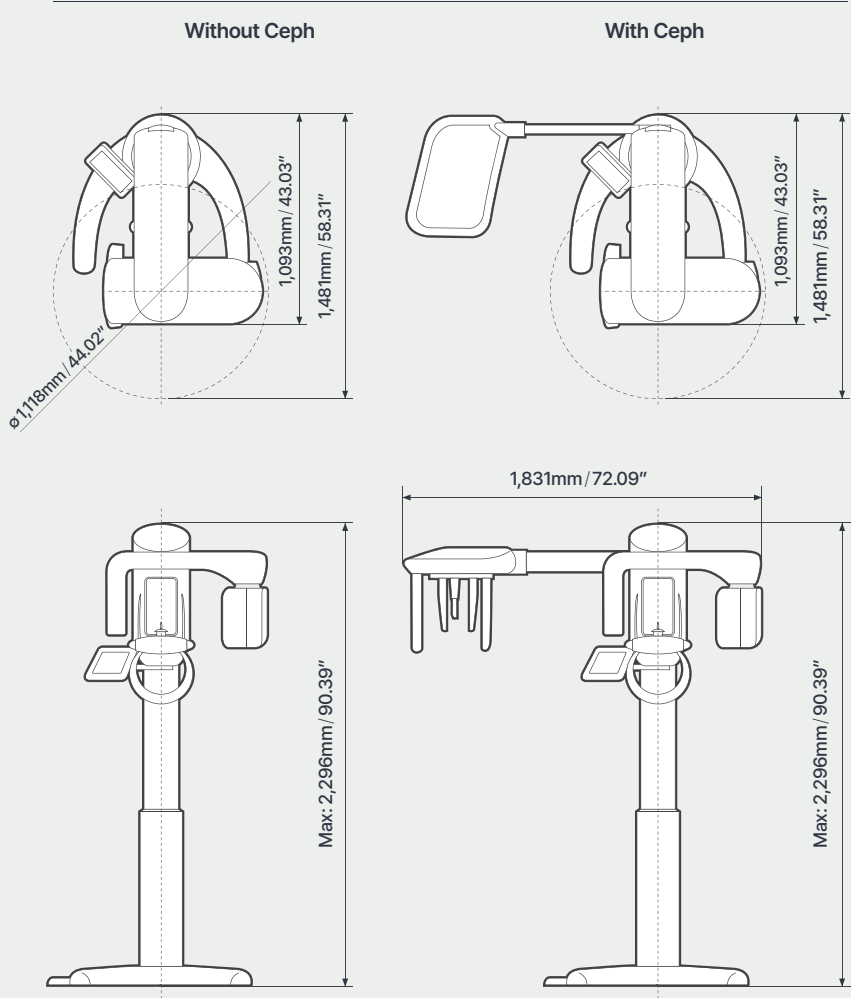
## Medical Design Studio

- Supports STL, OBJ, and PLY files for 3D output
- STL files can be exported from CT DICOM data

Specifications

Type	Cone Beam CT, Panoramic, Cephalometric, Object scan (CT Impression)*
Patient Positioning	Standing (Wheelchair accessible)
Focal Spot	0.5 mm
Tube Current	1~17 mA
Tube Voltage	60~100 kV
CBCT	
FOV Size	Max. 18×16(H) cm
Free FOV support	Yes
Scan Time	4.9~16 sec
Voxel Size	70~300 μm
Fast Scan Mode	Yes
Object Scan Support*	Yes (CT Impression & Model scan)
Panoramic	
Image Size	Max. 11.5(H )cm
Free FOV Support	Yes
Scan Time	Max.14 sec
Cephalometric (Option)	
Type & Scan Time	SC(Scanning Ceph) Max. 20 sec OCS(One-Shot Ceph Standard) Max. 0.8 sec OCL(One-Shot Ceph Large) Max. 0.5 sec

Dimensions



FACE FORWARD

With RAY's FACE-DRIVEN DENTISTRY, you're not just adapting to the digital era-  
you're leading it. Elevate your practice by embracing our three core pillars:  
SCAN, DESIGN, MAKE.



SCAN



DESIGN



MAKE



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